

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P651071

Luminaire Tested: **GALN-SA8C-840-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-840-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47322.2 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

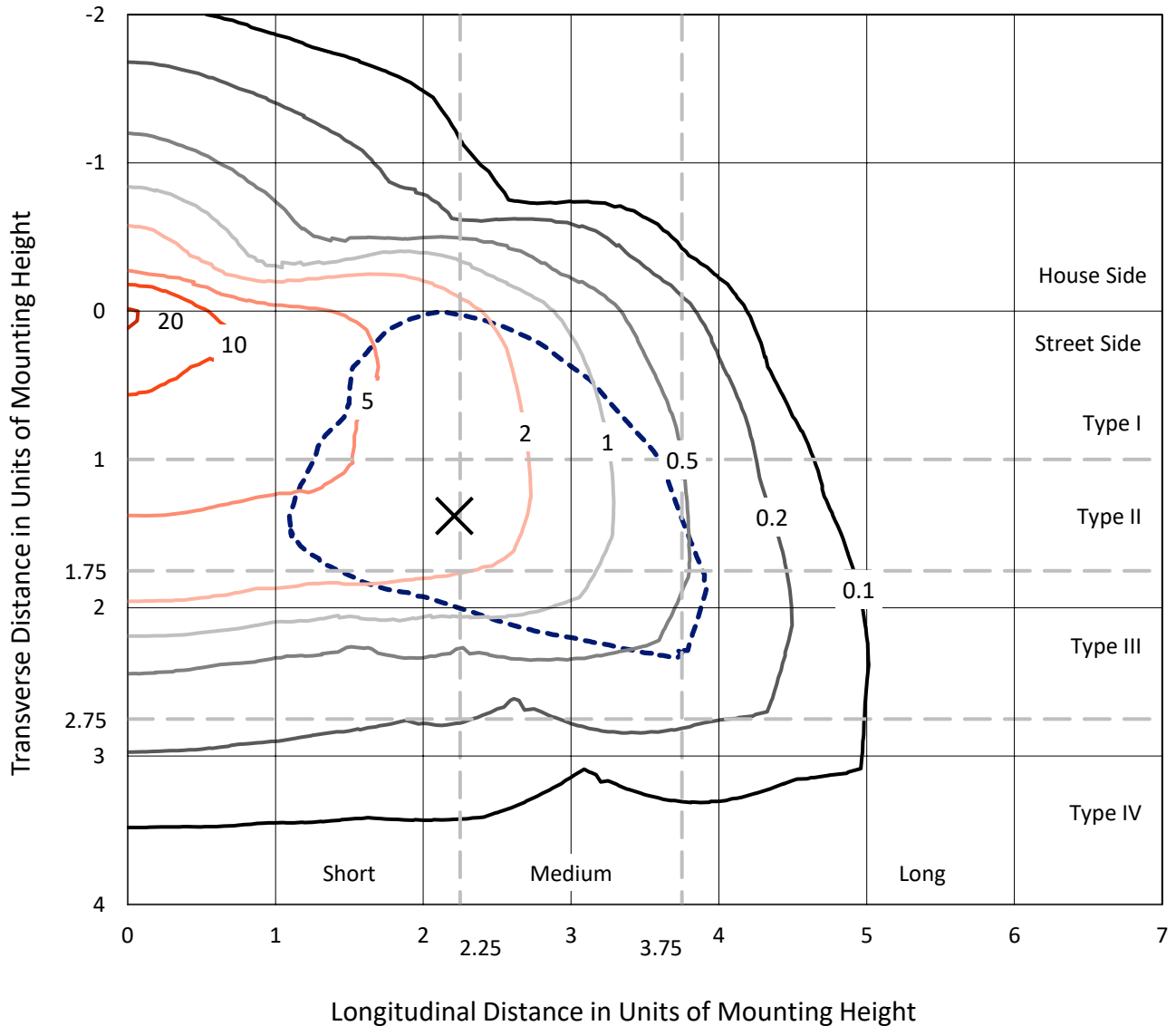
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

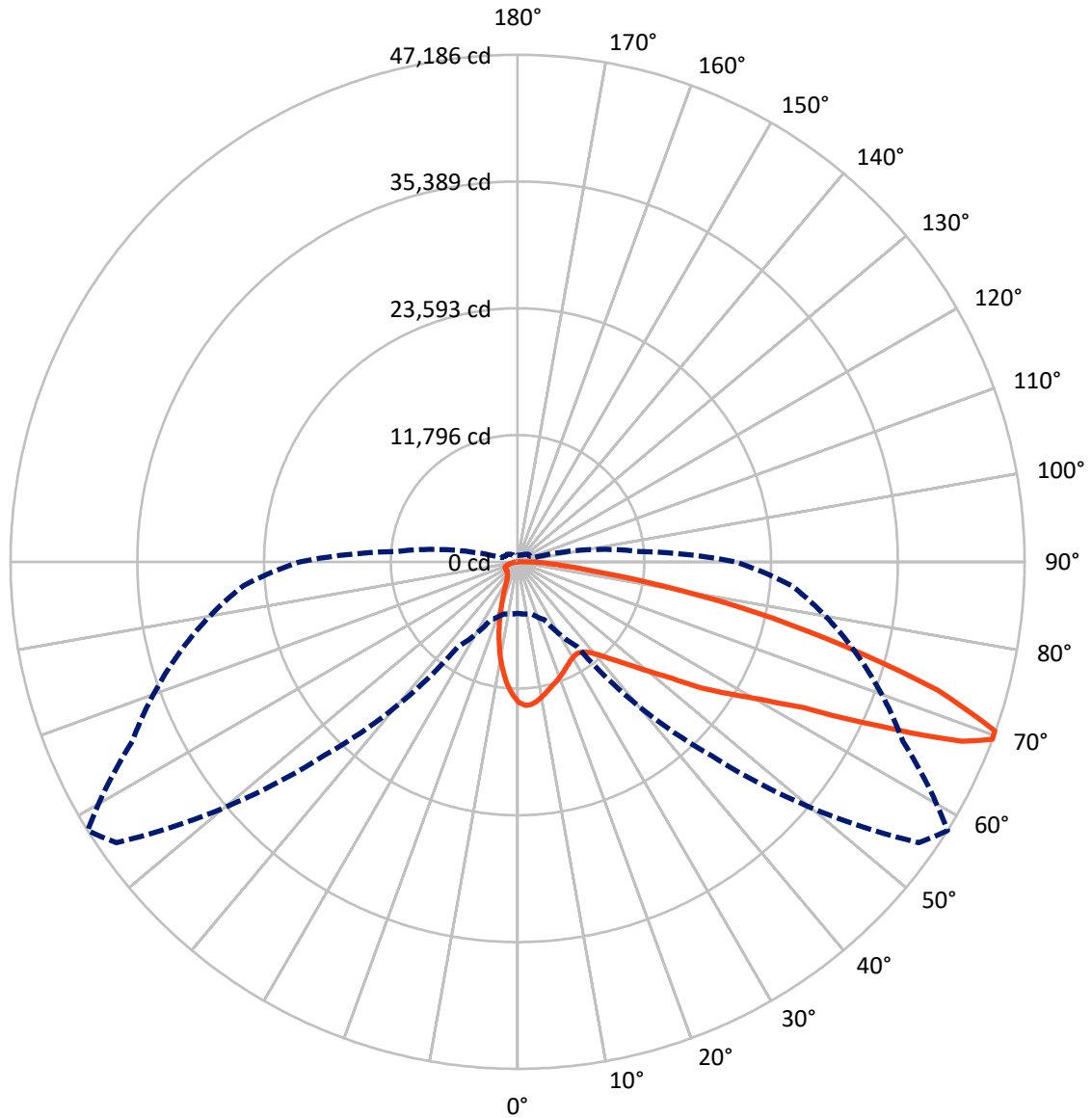
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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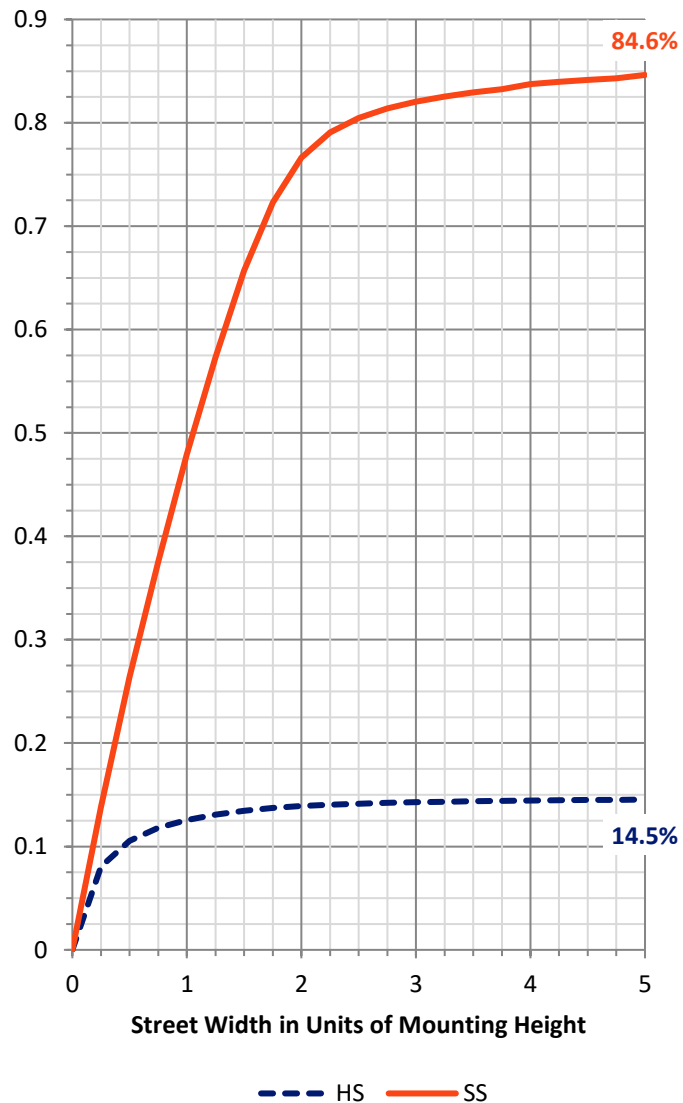
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6935.1	0.0	6935.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	40387.2	0.0	40387.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	47322.2	0.0	47322.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1110.6	2.3
10°-20°	2438.6	5.2
20°-30°	3150.7	6.7
30°-40°	4092.2	8.6
40°-50°	5949.4	12.6
50°-60°	9493.3	20.1
60°-70°	12681.9	26.8
70°-80°	7310.6	15.4
80°-90°	1095.0	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	47322.2	100.0
0°-180°	47322.2	100.0

Coefficient of Utilization



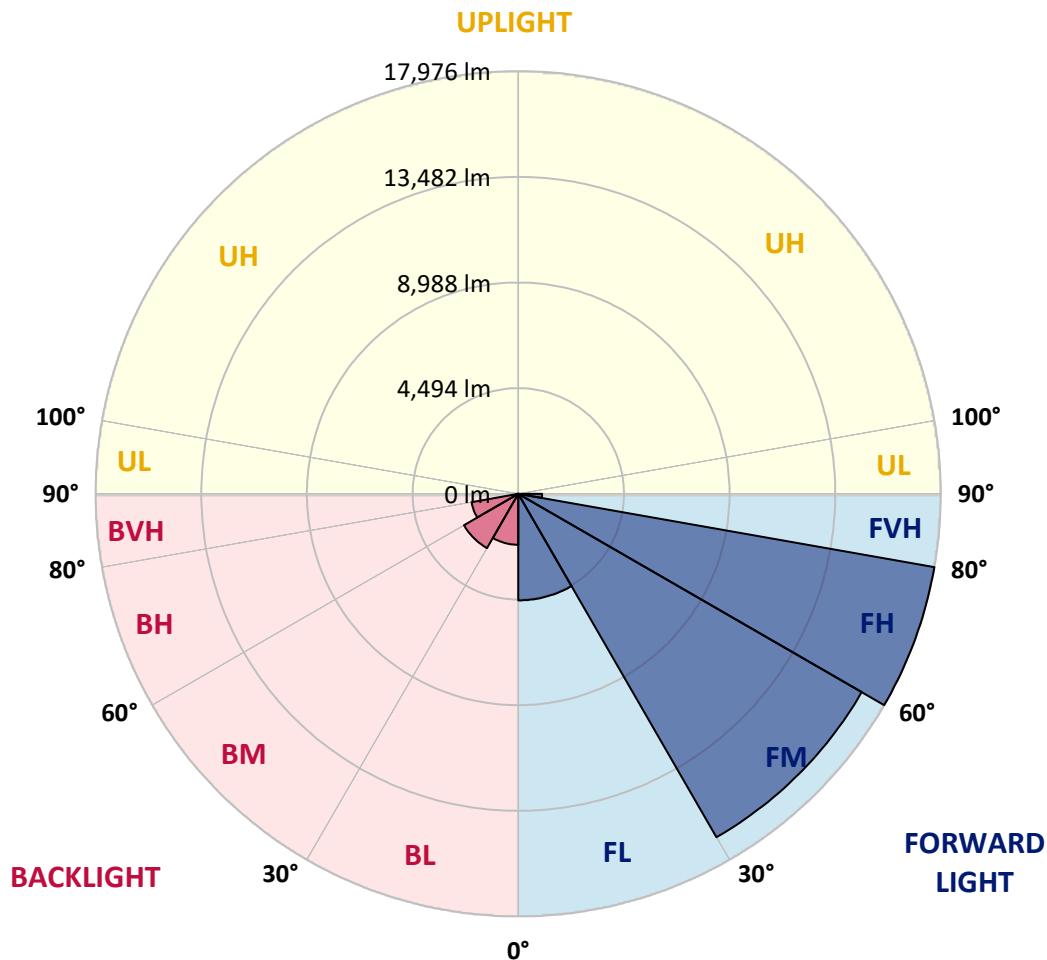
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4532.3	9.6			
FM (30°-60°)	16867.9	35.6			
FH (60°-80°)	17975.9	38.0			G5
FVH (80°-90°)	1011.1	2.1			G5
BL (0°-30°)	2167.6	4.6	B3/2500		
BM (30°-60°)	2667.0	5.6	B3/5000		
BH (60°-80°)	2016.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	83.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	13077.1	13077.1	13077.1	13077.1	13077.1	13077.1	13077.1	13077.1	13077.1	13077.1	13077.1
2.5°	13562.7	13599.6	13589.1	13575.9	13554.8	13496.7	13401.7	13385.9	13325.1	13195.9	13034.8
5°	13354.2	13385.9	13388.6	13407.0	13433.4	13422.9	13354.2	13346.2	13256.6	13082.3	12813.1
7.5°	12639.0	12681.2	12773.6	12876.6	12968.9	13056.0	13077.1	13090.2	13034.8	12834.2	12475.4
10°	11834.0	11876.3	11918.5	12071.5	12298.5	12514.9	12694.4	12718.2	12731.4	12546.6	12108.5
12.5°	10942.0	11029.1	11118.9	11345.8	11649.3	11989.7	12306.4	12356.6	12446.3	12306.4	11791.8
15°	10184.6	10274.3	10403.6	10606.9	10973.7	11464.6	11910.6	11992.4	12169.2	12098.0	11496.2
17.5°	9659.4	9691.0	9780.7	10013.0	10408.9	10926.2	11522.6	11686.3	11968.6	11950.2	11242.9
20°	9245.0	9284.6	9340.1	9482.5	9894.3	10440.6	11161.1	11372.2	11754.9	11818.2	10992.1
22.5°	9070.9	9099.9	9092.0	9168.5	9448.2	9997.2	10794.2	11044.9	11564.8	11728.5	10759.9
25°	9081.4	9107.8	9068.2	9049.7	9216.0	9606.6	10411.5	10730.9	11411.8	11667.8	10548.7
27.5°	9258.2	9276.7	9202.8	9128.9	9142.1	9363.8	10094.9	10448.5	11282.4	11694.2	10372.0
30°	9495.7	9530.0	9482.5	9392.8	9295.2	9305.7	9891.6	10240.0	11221.7	11786.5	10287.4
32.5°	9801.9	9833.6	9812.5	9741.2	9614.5	9474.6	9841.5	10163.5	11227.0	11973.9	10269.0
35°	10123.9	10187.2	10221.5	10216.2	10113.3	9870.5	10039.4	10306.0	11353.8	12288.0	10377.2
37.5°	10488.0	10540.8	10688.6	10783.6	10688.6	10406.3	10485.4	10670.2	11633.5	12741.9	10614.8
40°	10841.8	10920.9	11137.3	11432.9	11396.0	11147.9	11166.3	11287.7	12127.0	13417.6	11079.2
42.5°	11211.2	11306.2	11683.6	12121.8	12208.8	12016.1	12066.3	12174.5	12829.0	14354.4	11876.3
45°	11686.3	11799.7	12264.2	12810.5	13153.7	13034.8	13177.4	13230.2	13768.5	15573.7	12926.7
47.5°	12298.5	12430.5	13003.2	13684.1	14169.7	14277.9	14526.0	14494.3	14932.5	17017.4	14288.5
50°	13330.4	13404.4	13945.4	14639.5	15307.2	15795.4	16064.6	16114.8	16376.0	18421.4	15811.3
52.5°	14557.7	14623.6	15014.2	15621.2	16457.9	17492.5	18157.5	17993.9	18057.2	20131.6	17592.7
55°	15938.0	16048.8	16296.9	16700.7	17785.4	19308.2	20643.6	20683.2	19981.2	21767.9	19300.3
57.5°	17006.8	17194.2	17619.1	18194.4	19569.5	21327.2	23121.8	23148.2	22250.8	23515.0	21184.6
60°	16468.5	16690.1	17661.3	19062.7	21910.4	24850.5	26082.9	25932.5	24459.8	25504.9	23483.3
62.5°	14146.0	14185.6	15597.5	17788.0	22630.9	29564.0	30490.4	29854.3	27407.8	28028.0	25819.0
65°	9155.3	9413.9	10532.9	13602.2	20263.6	32179.4	38212.6	36742.5	31540.7	30891.5	27774.6
67.5°	5779.8	5713.8	6178.3	7767.1	13937.5	29875.4	44802.6	44570.3	36945.7	32699.3	27307.5
69°	4792.8	4866.6	5025.0	5953.9	9590.8	25507.6	45581.1	47185.7	39566.4	32556.8	25610.6
70°	4346.7	4381.0	4547.3	5278.4	7400.2	21364.1	44303.8	47114.5	40595.7	31960.4	24380.7
72.5°	3449.4	3446.8	3731.8	4391.6	5531.7	12195.6	36378.3	40904.5	39445.1	29184.0	20144.8
75°	2620.7	2662.9	2977.0	3716.0	5096.2	6663.9	25386.2	31501.2	31503.8	23050.5	12570.3
77.5°	1889.6	1916.1	2282.9	3119.5	4800.7	5402.4	16909.1	22594.0	21240.0	10562.0	3950.8
80°	1237.8	1253.6	1533.4	2470.3	4328.2	5096.2	10026.2	13829.2	10018.3	2802.8	1306.4
82.5°	678.3	757.4	936.9	1599.3	3473.2	4708.3	6093.9	6999.1	3758.2	1248.3	680.9
85°	340.4	361.5	527.8	934.3	2269.7	3895.4	4243.8	4014.2	1939.8	620.2	353.6
87.5°	100.2	126.7	219.1	361.5	921.1	2029.5	2362.0	2119.2	746.9	224.3	73.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13077.1	13077.1	13077.1	13077.1	13077.1	13077.1	13077.1	13077.1	13077.1	13077.1	13077.1
2.5°	12968.9	12921.4	12710.3	12520.2	12346.0	12161.3	12005.6	11868.4	11881.6	11884.2	11744.3
5°	12673.3	12565.1	12164.0	11789.1	11472.5	11071.3	10728.2	10506.5	10395.7	10247.9	10300.7
7.5°	12272.1	12063.6	11506.8	10884.0	10300.7	9780.7	9216.0	8828.1	8580.0	8339.8	8371.5
10°	11857.8	11522.6	10712.4	9889.0	9134.2	8302.9	7582.4	6964.7	6505.6	6334.0	6220.5
12.5°	11432.9	10992.1	9962.9	8867.6	7825.2	6830.2	5808.8	5146.4	4639.6	4370.5	4404.7
15°	11044.9	10509.2	9181.7	7846.3	6492.4	5307.4	4288.7	3657.9	3304.2	3230.4	3272.6
17.5°	10686.0	9984.0	8450.6	6853.9	5273.1	3979.9	3222.5	2866.1	2723.7	2684.1	2681.4
20°	10316.5	9537.9	7629.8	5793.0	4109.2	3085.2	2644.4	2478.2	2451.8	2467.7	2470.3
22.5°	9941.8	8986.3	6785.3	4740.0	3272.6	2523.1	2311.9	2267.1	2288.2	2325.1	2330.4
25°	9596.1	8500.7	5972.4	3816.2	2612.8	2216.9	2113.9	2113.9	2161.5	2216.9	2219.6
27.5°	9311.0	8031.0	5162.2	3029.8	2187.9	1995.2	1960.9	1979.4	2045.4	2087.6	2090.2
30°	9076.1	7592.9	4396.8	2428.1	1924.0	1818.4	1810.5	1842.1	1889.6	1929.3	1931.9
32.5°	8899.3	7207.5	3681.6	2040.1	1741.9	1683.8	1681.2	1704.9	1731.3	1741.9	1752.4
35°	8830.7	6888.2	3027.1	1794.6	1620.4	1583.5	1583.5	1580.8	1591.4	1596.7	1601.9
37.5°	8886.1	6642.8	2520.4	1636.2	1530.7	1504.3	1488.5	1472.7	1467.4	1467.4	1470.0
40°	9121.0	6513.5	2143.0	1533.4	1467.4	1427.8	1398.8	1380.2	1361.8	1367.1	1372.3
42.5°	9619.8	6537.3	1887.0	1464.8	1412.0	1356.5	1314.3	1293.2	1280.0	1295.8	1293.2
45°	10414.2	6774.8	1723.4	1417.3	1356.5	1285.3	1245.7	1224.6	1224.6	1248.3	1256.3
47.5°	11525.2	7228.7	1636.2	1380.2	1314.3	1229.9	1190.3	1174.5	1179.7	1219.3	1222.0
50°	12881.8	8017.8	1620.4	1361.8	1293.2	1190.3	1145.4	1129.5	1142.8	1185.0	1190.3
52.5°	14378.2	9033.9	1697.0	1364.4	1274.7	1166.6	1108.4	1084.7	1097.9	1132.2	1142.8
55°	16151.7	10306.0	1894.9	1375.0	1248.3	1153.3	1082.0	1029.3	1045.1	1068.8	1071.5
57.5°	17962.2	11910.6	2243.3	1377.6	1227.2	1129.5	1037.2	968.6	968.6	984.4	992.3
60°	20173.8	13657.7	2702.5	1380.2	1229.9	1095.2	976.5	900.0	889.4	897.3	900.0
62.5°	22369.6	15119.8	2779.1	1372.3	1256.3	1060.9	910.6	831.3	812.8	810.2	804.9
65°	23338.2	14847.9	2277.6	1335.4	1285.3	1039.8	857.7	765.4	733.7	723.1	723.1
67.5°	21759.9	12559.8	1712.8	1285.3	1266.8	1018.7	807.6	710.0	673.0	651.9	651.9
69°	20276.8	11171.6	1538.6	1251.0	1219.3	984.4	775.9	680.9	636.0	612.2	604.3
70°	19131.3	10216.2	1464.8	1222.0	1174.5	944.9	752.2	659.8	609.6	583.2	578.0
72.5°	15267.6	8015.2	1282.6	1111.1	1000.3	794.4	667.7	593.8	546.3	517.3	509.4
75°	8799.0	4344.1	1063.6	966.0	804.9	617.5	564.8	517.3	480.3	454.0	446.0
77.5°	2707.8	1678.6	770.6	762.7	591.1	477.7	451.3	432.9	406.5	377.4	372.1
80°	1140.1	855.1	522.6	514.6	393.3	332.5	324.6	322.0	311.4	287.7	279.7
82.5°	625.5	483.0	364.2	316.7	237.5	192.7	200.6	203.2	195.3	171.6	155.7
85°	306.1	263.9	176.9	142.5	108.2	68.6	66.0	79.1	73.9	52.8	58.0
87.5°	60.7	73.9	47.5	21.1	10.6	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)