

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: P647107

Luminaire Tested: **GALN-SA8C-835-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647107
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-835-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44371 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

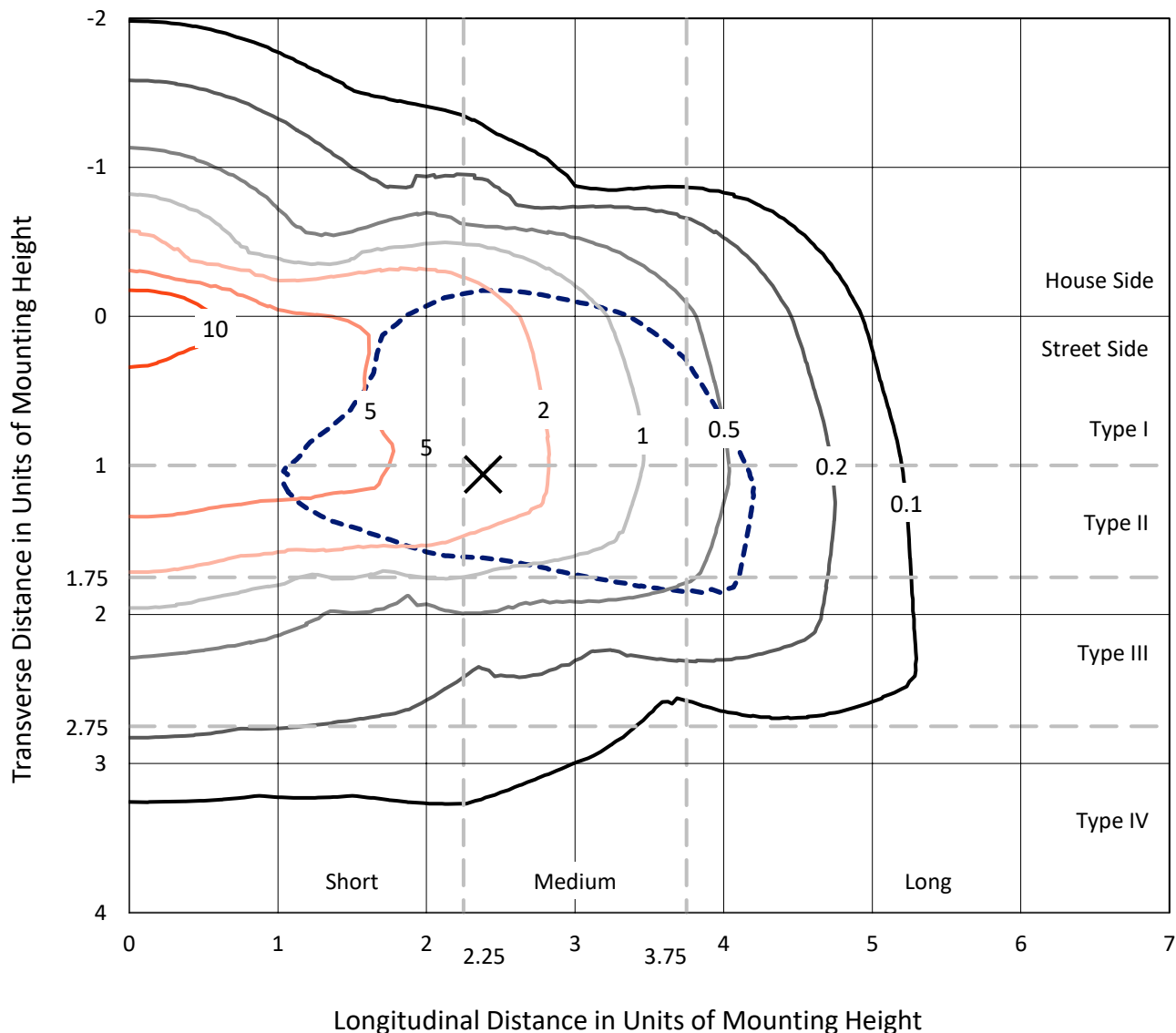
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

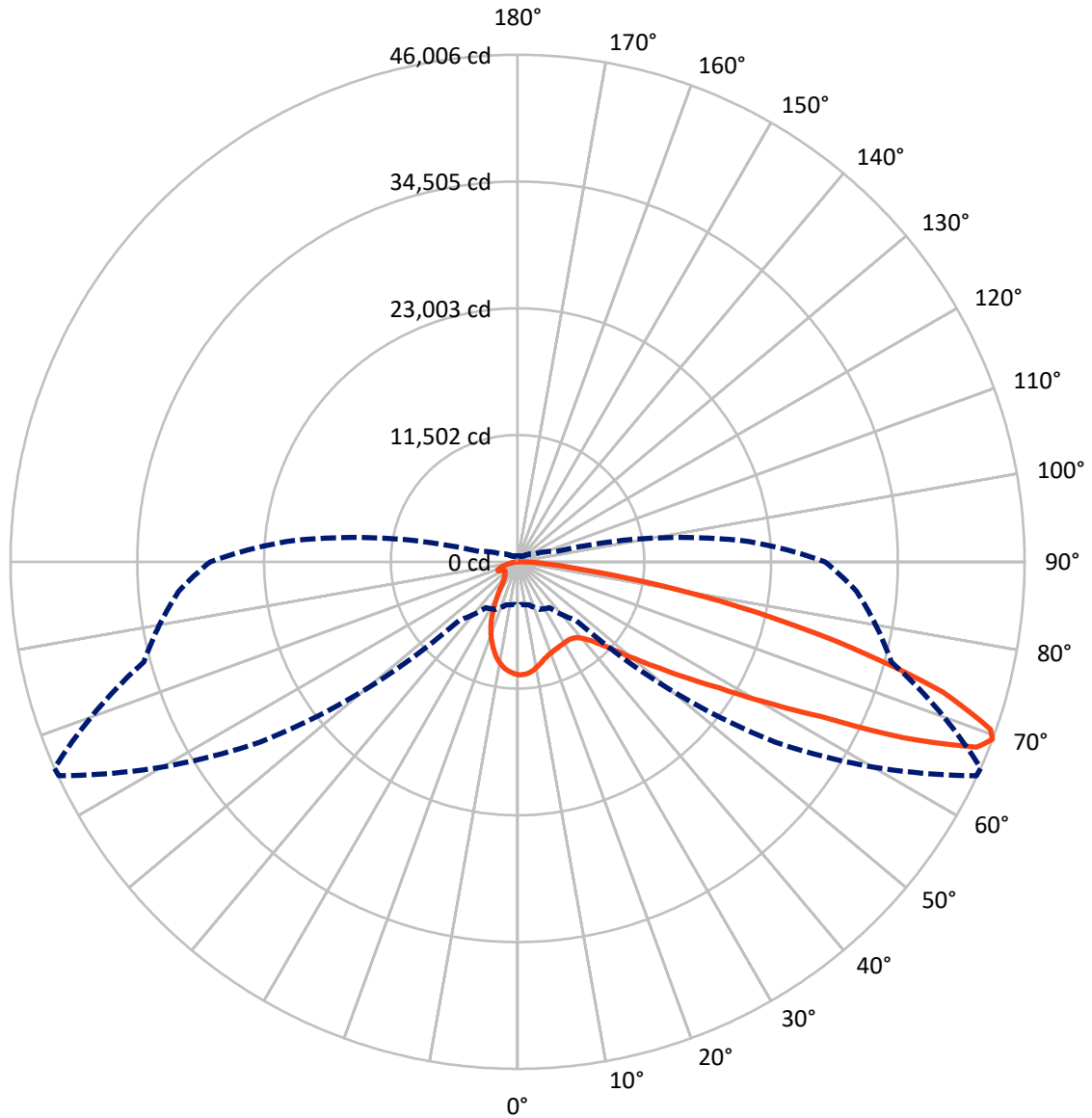
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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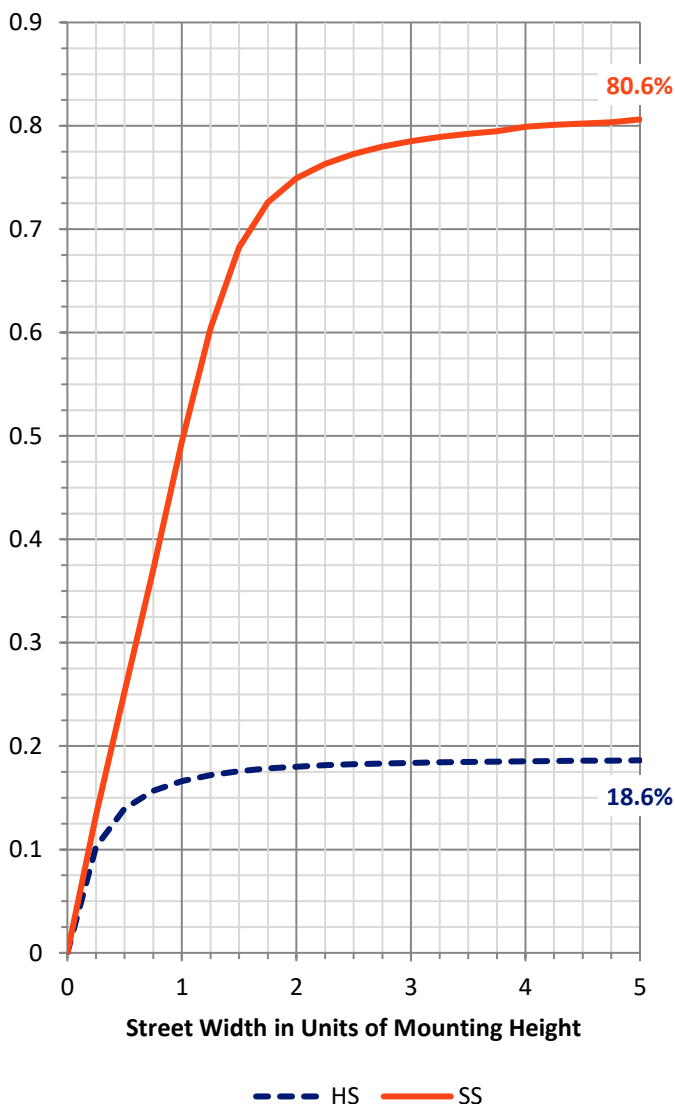
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8344.5	0.0	8344.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	36026.5	0.0	36026.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	44371.0	0.0	44371.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	889.8	2.0
10°-20°	2110.5	4.8
20°-30°	2873.2	6.5
30°-40°	3861.0	8.7
40°-50°	5765.1	13.0
50°-60°	9170.3	20.7
60°-70°	11278.9	25.4
70°-80°	7338.6	16.5
80°-90°	1083.7	2.4
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°	44371.0	100.0
0°-180°	44371.0	100.0

Coefficient of Utilization

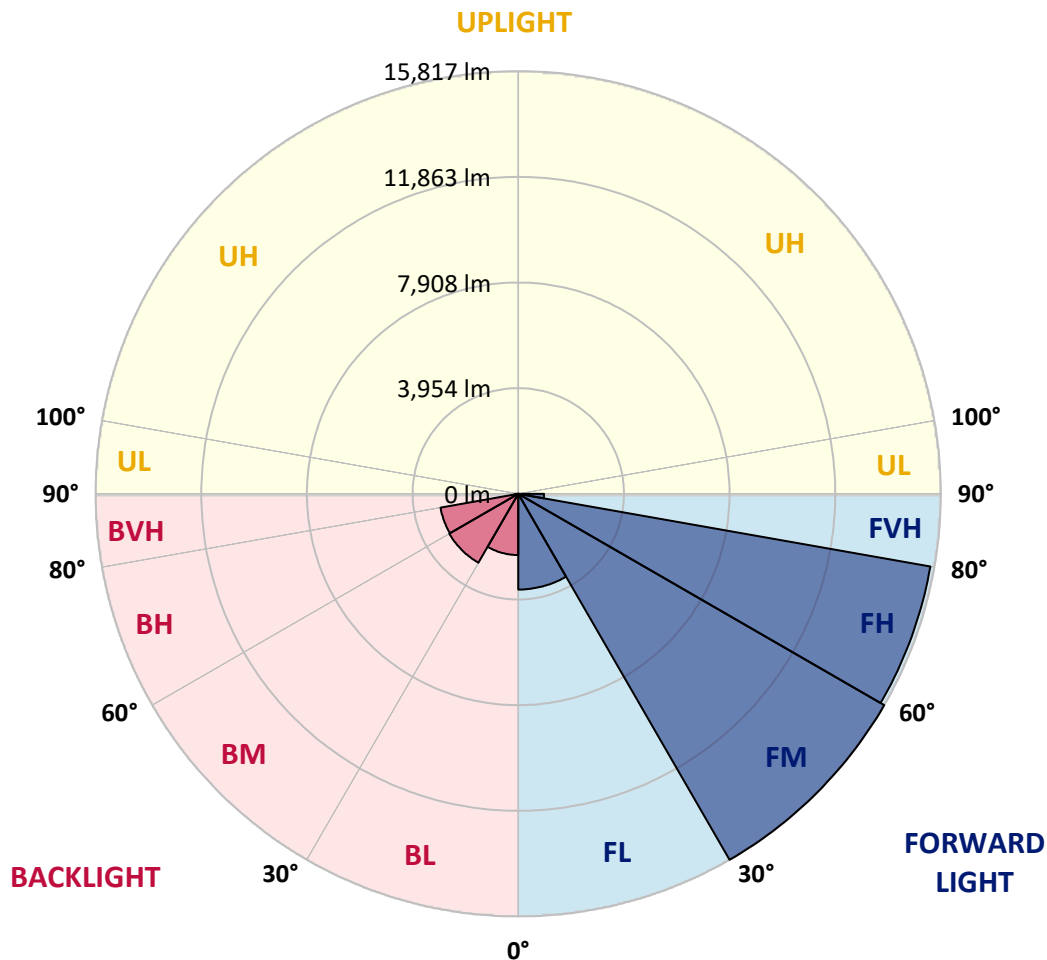


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3582.9	8.1			
FM (30°-60°)	15816.9	35.6			
FH (60°-80°)	15663.2	35.3			G5
FVH (80°-90°)	963.5	2.2			G5
BL (0°-30°)	2290.6	5.2	B3/2500		
BM (30°-60°)	2979.4	6.7	B3/5000		
BH (60°-80°)	2954.3	6.7	B4/5000		G4/5000
BVH (80°-90°)	120.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	10246.5	10246.5	10246.5	10246.5	10246.5	10246.5	10246.5	10246.5	10246.5	10246.5	10246.5
2.5°	9887.7	9927.1	9971.3	10020.4	10113.9	10165.5	10202.3	10244.1	10249.0	10271.1	10253.9
5°	9158.0	9204.6	9271.0	9364.4	9504.4	9723.1	9949.2	10133.5	10155.6	10258.8	10288.3
7.5°	8548.6	8575.7	8629.7	8779.5	8978.6	9221.9	9551.1	9924.6	9978.7	10224.4	10310.4
10°	8052.2	8079.2	8143.1	8297.9	8494.5	8799.2	9160.4	9651.9	9696.1	10118.7	10315.3
12.5°	7681.2	7705.7	7774.6	7926.9	8153.0	8438.0	8836.1	9357.0	9420.9	9978.7	10268.7
15°	7398.6	7445.3	7501.8	7627.1	7865.5	8140.7	8526.5	9086.7	9138.3	9831.3	10236.7
17.5°	7278.2	7300.3	7339.6	7455.1	7629.6	7899.9	8288.1	8875.4	8936.8	9728.1	10229.3
20°	7283.2	7305.2	7312.6	7376.5	7501.8	7735.3	8118.6	8708.3	8782.0	9637.1	10241.6
22.5°	7450.2	7452.7	7425.7	7403.5	7452.7	7646.8	7998.2	8583.0	8669.0	9597.8	10251.4
25°	7708.2	7752.5	7713.2	7609.9	7519.0	7612.4	7951.5	8514.2	8595.3	9541.3	10239.1
27.5°	8126.0	8133.3	8101.4	7961.3	7725.4	7656.6	7931.8	8462.6	8531.4	9499.5	10177.7
30°	8686.2	8664.1	8634.6	8479.8	8108.7	7826.2	7973.6	8415.9	8487.2	9438.1	10104.0
32.5°	9253.8	9322.6	9295.5	9113.7	8632.1	8155.4	8108.7	8411.0	8469.9	9391.4	10022.9
35°	9855.8	9887.7	10015.5	9922.2	9428.3	8688.6	8361.8	8487.2	8533.8	9393.9	9966.4
37.5°	10327.6	10413.6	10713.4	10794.4	10330.0	9393.9	8772.2	8703.4	8723.0	9514.2	9988.5
40°	10897.6	11045.1	11430.9	11762.6	11457.9	10310.4	9470.1	9103.9	9128.4	9804.2	10133.5
42.5°	11620.1	11723.3	12241.7	12691.4	12642.2	11521.8	10315.3	9760.0	9772.2	10381.6	10538.9
45°	12465.4	12612.8	13195.1	13870.8	13986.3	12892.9	11536.6	10752.7	10745.3	11278.6	11295.7
47.5°	13546.5	13637.4	14214.9	14952.0	15418.9	14615.4	13018.2	12177.8	12099.2	12585.8	12445.7
50°	14541.7	14684.2	15121.6	15927.6	17089.8	16632.7	14966.8	14025.6	13841.4	14295.9	14060.1
52.5°	14959.4	15109.3	15477.9	16477.9	18522.3	19242.3	17441.2	16229.8	15922.6	16271.5	16185.5
55°	14234.5	14428.7	14772.6	15988.9	19151.4	22252.4	20778.1	18777.9	18554.3	18404.4	18429.0
57.5°	12286.0	12470.3	12934.7	14276.3	18399.5	24436.8	25542.6	22053.4	21574.2	20883.7	21001.6
60°	9352.1	9467.6	9708.4	11195.0	16170.8	25004.4	30953.3	26193.7	25889.0	23353.2	23436.8
62.5°	6641.8	6772.0	6939.1	7681.2	11838.8	23404.8	35189.5	31975.5	30886.9	25911.1	25830.1
65°	5393.5	5305.1	5506.6	5853.0	6946.5	18139.1	36142.9	40000.7	38501.8	29280.0	28154.6
67.5°	4435.2	4341.9	4540.9	5157.6	5283.0	10529.1	32707.7	45210.0	44910.1	32943.6	30515.9
69°	3926.6	3877.4	4051.9	4754.7	5071.6	7477.3	28493.6	45934.9	46006.1	35103.5	30879.6
70°	3538.4	3558.0	3727.5	4550.7	4975.8	6165.1	24353.3	44934.7	45539.2	36182.2	30486.4
72.5°	2604.6	2646.4	2882.3	3769.4	4884.9	5231.4	14492.5	39248.8	40317.7	36246.1	27889.2
75°	1820.8	1801.1	2010.0	2838.1	4614.6	5184.7	8511.8	30353.8	31565.2	31329.2	23434.3
77.5°	1191.7	1223.7	1390.8	2005.1	3882.3	5145.4	5548.3	21534.8	22321.1	20952.5	13861.1
80°	840.4	837.9	931.3	1368.7	2879.8	4943.9	4543.4	13573.5	13374.5	8234.0	4110.9
82.5°	481.6	516.0	624.1	963.2	1926.4	4351.7	4179.7	6491.9	5926.8	2346.7	1388.3
85°	267.9	280.2	371.1	582.3	1125.4	3277.9	3648.9	2953.6	2786.5	980.4	597.1
87.5°	86.0	93.4	154.8	294.9	511.1	1548.1	2066.5	1363.8	1258.0	353.8	240.8
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°	10246.5	10246.5	10246.5	10246.5	10246.5	10246.5	10246.5	10246.5	10246.5	10246.5	10246.5
2.5°	10261.2	10290.7	10212.1	10135.9	10067.1	9971.3	9885.3	9814.0	9764.9	9757.5	9732.9
5°	10295.7	10298.1	10148.2	9946.8	9750.2	9533.9	9310.3	9150.6	9000.7	8917.2	8875.4
7.5°	10320.3	10298.1	10027.8	9701.0	9322.6	8929.5	8536.3	8221.8	7978.5	7882.7	7919.6
10°	10310.4	10241.6	9846.0	9322.6	8772.2	8184.9	7619.8	7177.4	6772.0	6563.2	6568.1
12.5°	10256.4	10143.3	9575.7	8897.5	8089.1	7302.8	6437.8	5840.8	5371.5	5093.7	5007.8
15°	10209.6	10013.1	9258.7	8320.1	7315.1	6192.1	5138.0	4400.9	4007.7	3789.0	3786.5
17.5°	10160.5	9887.7	8912.3	7708.2	6425.5	4980.7	3875.0	3312.3	3128.0	3150.1	3113.3
20°	10108.9	9740.4	8551.1	7027.6	5341.9	3715.3	2902.0	2673.4	2725.0	2825.8	2840.5
22.5°	10050.0	9583.1	8162.8	6278.2	4201.8	2796.3	2354.0	2319.6	2452.3	2609.5	2631.7
25°	9959.0	9386.5	7673.8	5494.3	3241.1	2253.2	2061.6	2086.1	2216.4	2349.1	2363.8
27.5°	9831.3	9143.2	7180.0	4516.3	2435.1	1933.8	1884.7	1916.6	1980.5	2061.6	2081.2
30°	9659.2	8868.0	6612.3	3671.0	1951.0	1774.1	1754.5	1771.6	1808.5	1842.9	1852.7
32.5°	9487.2	8602.7	6039.7	2811.0	1739.7	1668.4	1648.8	1648.8	1648.8	1653.7	1656.1
35°	9327.5	8352.0	5425.5	2189.3	1629.1	1584.9	1557.9	1528.3	1523.5	1506.3	1506.3
37.5°	9239.1	8123.5	4771.8	1833.1	1548.1	1516.1	1479.2	1430.1	1403.1	1405.5	1400.6
40°	9256.2	7973.6	4177.2	1631.6	1481.7	1447.3	1390.8	1334.2	1317.1	1317.1	1312.2
42.5°	9450.3	7924.4	3607.2	1525.9	1417.8	1378.5	1307.2	1255.6	1245.8	1243.3	1248.3
45°	9897.6	8044.9	3096.1	1457.1	1363.8	1304.8	1233.5	1186.8	1177.0	1177.0	1174.6
47.5°	10769.9	8435.6	2729.9	1412.9	1324.4	1248.3	1174.6	1127.8	1110.7	1105.8	1105.8
50°	12126.2	9283.2	2457.2	1373.5	1275.3	1196.7	1120.5	1066.4	1039.4	1036.9	1034.5
52.5°	14010.9	10605.3	2351.5	1344.1	1221.2	1142.6	1059.1	1007.5	973.0	965.7	960.7
55°	16215.1	12450.6	2496.5	1321.9	1164.7	1081.2	995.2	941.1	909.1	894.4	892.0
57.5°	18768.0	14667.0	3046.9	1292.5	1113.1	1014.8	931.3	877.2	842.8	825.6	820.7
60°	21060.7	16944.8	4007.7	1275.3	1068.9	943.6	857.5	808.4	776.5	759.3	756.8
62.5°	23579.3	19116.9	5155.2	1321.9	1049.2	874.8	788.8	744.6	717.5	700.3	700.3
65°	26269.9	21291.6	5914.5	1479.2	1078.7	820.7	715.0	678.2	653.6	641.4	638.8
67.5°	28083.3	22043.5	4872.6	1641.4	1152.4	761.7	643.8	614.3	599.5	587.2	587.2
69°	27886.7	21092.5	3594.9	1683.2	1174.6	732.3	604.5	582.3	562.7	557.8	552.9
70°	27265.1	20008.9	3012.5	1656.1	1157.4	705.2	579.9	552.9	535.7	530.7	528.3
72.5°	24284.4	17352.7	2243.5	1439.9	985.3	611.8	513.6	489.0	474.3	466.9	466.9
75°	20176.0	14182.9	1752.0	1145.1	771.6	516.0	439.8	420.2	407.9	403.0	400.5
77.5°	11308.0	7919.6	1258.0	896.8	584.8	417.7	368.6	351.4	339.1	334.2	334.2
80°	3150.1	2263.1	739.6	592.2	398.1	317.0	292.4	280.2	262.9	250.6	258.0
82.5°	1186.8	980.4	422.7	356.3	253.1	211.3	204.0	194.1	186.7	169.5	169.5
85°	577.5	476.7	270.3	189.2	140.1	110.6	105.6	100.8	95.8	83.5	86.0
87.5°	199.0	211.3	117.9	68.8	41.7	27.0	22.1	12.3	12.3	12.3	12.3
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)