

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: P651067

Luminaire Tested: **GALN-SA8C-840-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651067
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-840-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 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: 47657.8 lumens
Efficiency: N/A
Efficacy: 111.1 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

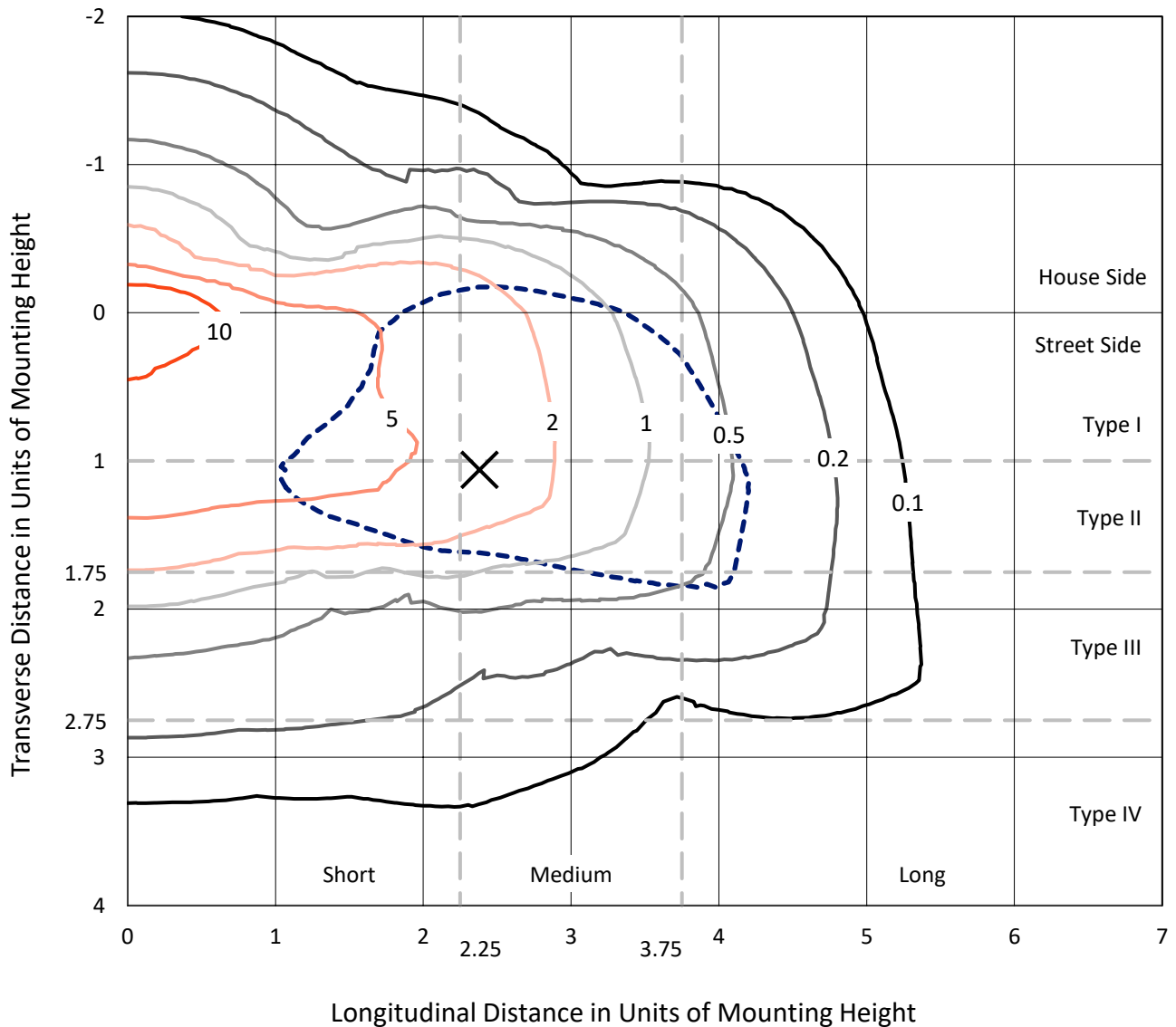
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

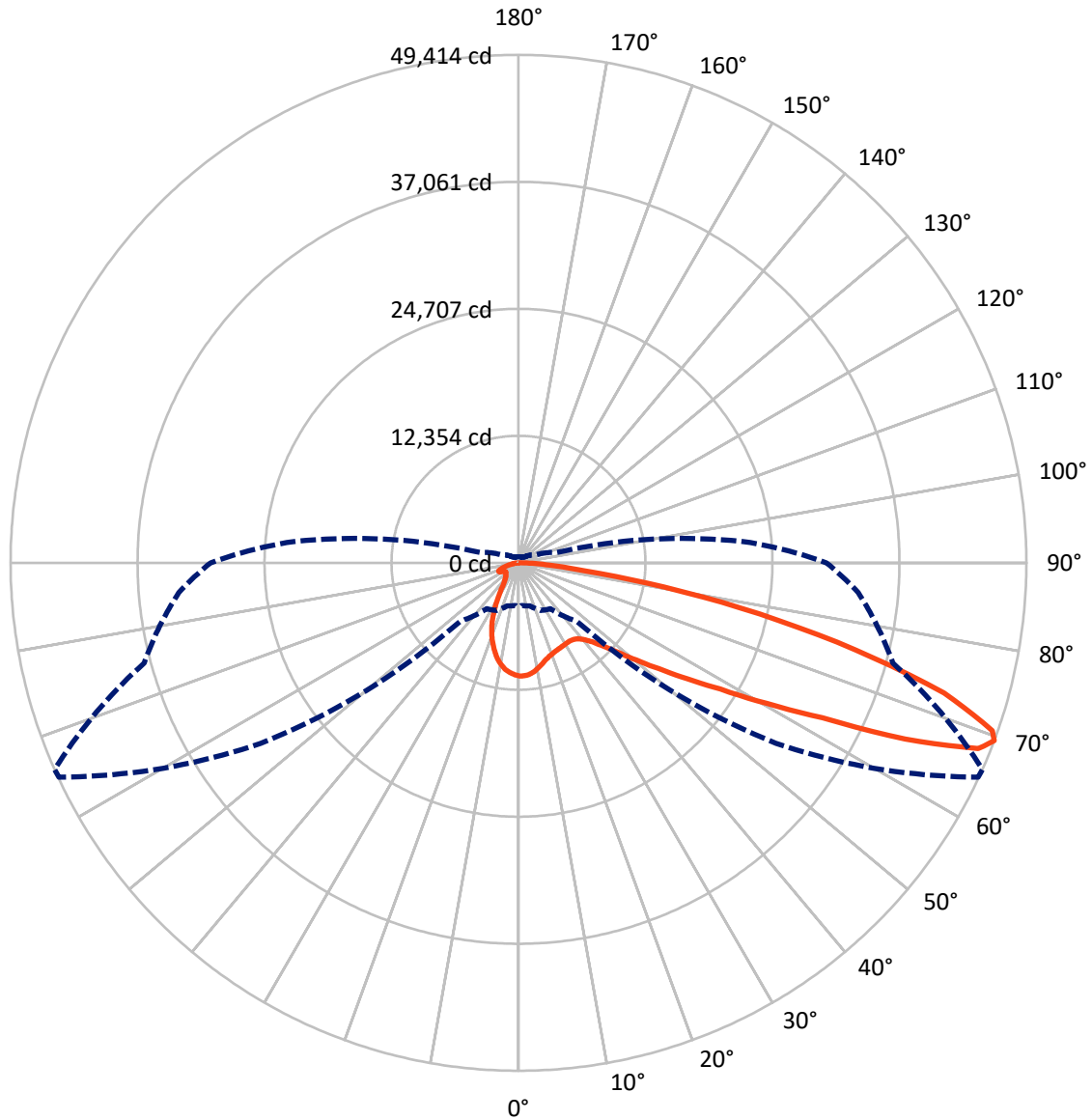
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 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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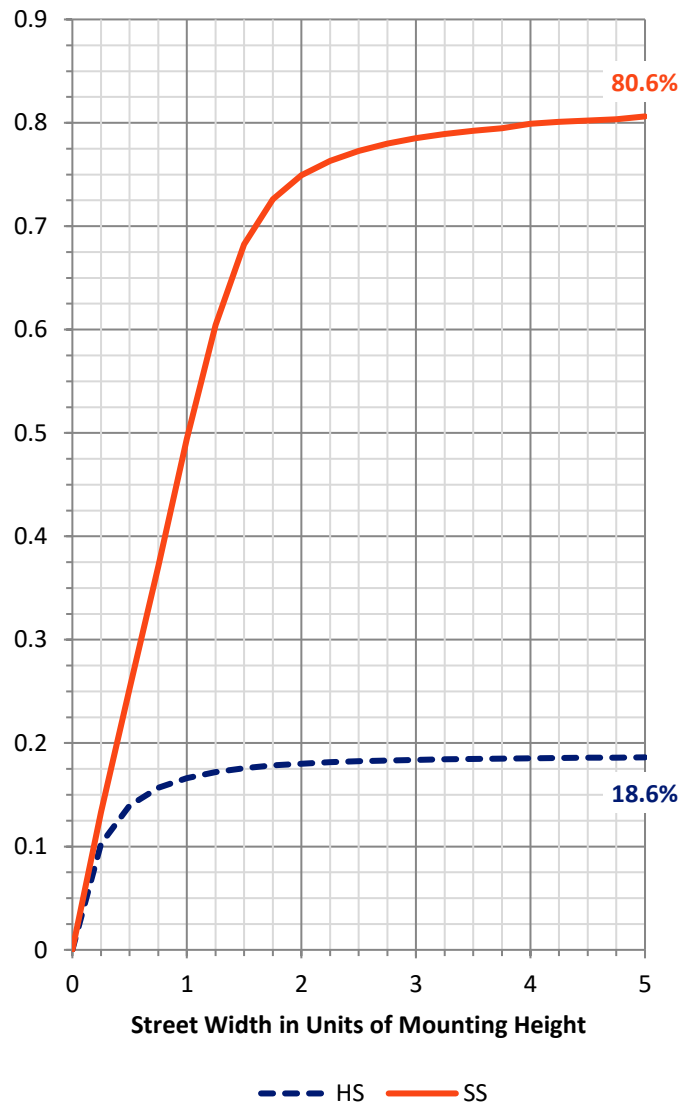
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8962.6	0.0	8962.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	38695.2	0.0	38695.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	47657.8	0.0	47657.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	955.7	2.0
10°-20°	2266.9	4.8
20°-30°	3086.0	6.5
30°-40°	4147.0	8.7
40°-50°	6192.1	13.0
50°-60°	9849.6	20.7
60°-70°	12114.4	25.4
70°-80°	7882.2	16.5
80°-90°	1164.0	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°	47657.8	100.0
0°-180°	47657.8	100.0

Coefficient of Utilization

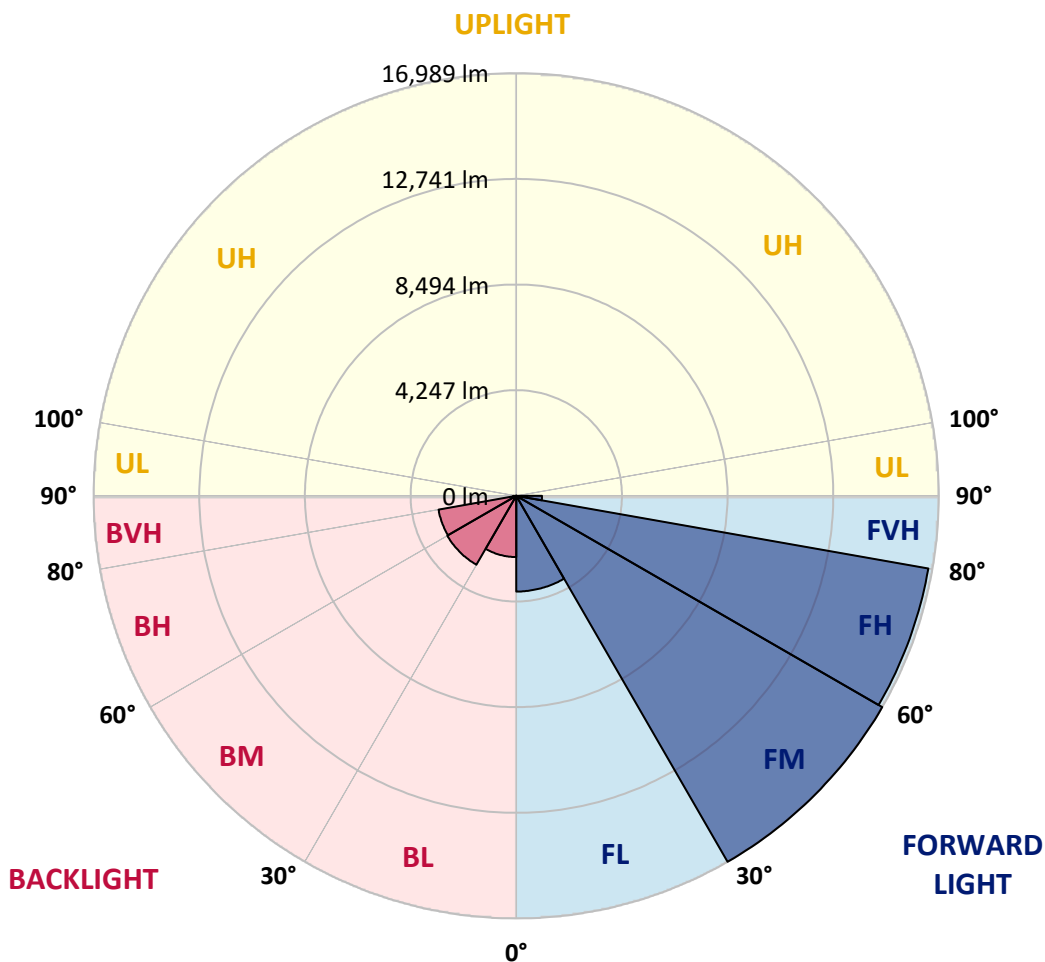


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3848.3	8.1			
FM (30°-60°)	16988.6	35.6			
FH (60°-80°)	16823.5	35.3			G5
FVH (80°-90°)	1034.8	2.2			G5
BL (0°-30°)	2460.3	5.2	B3/2500		
BM (30°-60°)	3200.1	6.7	B3/5000		
BH (60°-80°)	3173.2	6.7	B4/5000		G4/5000
BVH (80°-90°)	129.1	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°	11005.5	11005.5	11005.5	11005.5	11005.5	11005.5	11005.5	11005.5	11005.5	11005.5	11005.5
2.5°	10620.1	10662.5	10709.9	10762.7	10863.0	10918.5	10958.0	11002.9	11008.2	11031.9	11013.4
5°	9836.3	9886.5	9957.8	10058.0	10208.5	10443.4	10686.2	10884.1	10907.9	11018.7	11050.4
7.5°	9181.8	9210.9	9268.9	9429.9	9643.7	9905.0	10258.6	10659.8	10717.9	10981.8	11074.1
10°	8648.7	8677.7	8746.3	8912.6	9123.8	9451.0	9838.9	10366.8	10414.4	10868.2	11079.4
12.5°	8250.2	8276.5	8350.5	8514.1	8756.9	9063.0	9490.6	10050.1	10118.7	10717.9	11029.3
15°	7946.7	7996.8	8057.5	8192.1	8448.1	8743.7	9158.1	9759.8	9815.2	10559.5	10995.0
17.5°	7817.3	7841.1	7883.3	8007.3	8194.8	8485.1	8902.1	9532.8	9598.8	10448.7	10987.0
20°	7822.6	7846.4	7854.3	7922.9	8057.5	8308.2	8720.0	9353.3	9432.6	10350.9	11000.2
22.5°	8002.1	8004.7	7975.7	7951.9	8004.7	8213.2	8590.6	9218.8	9311.1	10308.7	11010.8
25°	8279.2	8326.7	8284.5	8173.6	8076.0	8176.3	8540.5	9144.9	9232.0	10248.1	10997.6
27.5°	8727.9	8735.8	8701.5	8551.0	8297.6	8223.8	8519.3	9089.4	9163.4	10203.2	10931.6
30°	9329.6	9305.8	9274.2	9107.9	8709.4	8405.9	8564.2	9039.3	9115.9	10137.2	10852.4
32.5°	9939.3	10013.2	9984.1	9788.8	9271.5	8759.5	8709.4	9034.0	9097.3	10087.0	10765.3
35°	10585.8	10620.1	10757.4	10657.2	10126.6	9332.2	8981.2	9115.9	9166.0	10089.7	10704.7
37.5°	11092.6	11185.0	11507.0	11594.0	11095.2	10089.7	9422.0	9348.1	9369.2	10219.0	10728.4
40°	11704.9	11863.2	12277.6	12633.9	12306.6	11074.1	10171.6	9778.3	9804.6	10530.4	10884.1
42.5°	12480.9	12591.7	13148.5	13631.5	13578.7	12375.2	11079.4	10483.0	10496.1	11150.7	11319.6
45°	13388.7	13547.1	14172.5	14898.3	15022.4	13847.9	12391.1	11549.2	11541.3	12114.0	12132.4
47.5°	14550.0	14647.6	15267.9	16059.6	16561.1	15698.0	13982.6	13079.9	12995.5	13518.1	13367.6
50°	15618.9	15771.9	16241.7	17107.4	18355.8	17864.8	16075.5	15064.6	14866.7	15354.9	15101.6
52.5°	16067.5	16228.5	16624.4	17698.5	19894.4	20667.7	18733.1	17432.0	17102.1	17476.8	17384.5
55°	15289.0	15497.4	15866.9	17173.3	20570.0	23900.7	22317.2	20168.9	19928.7	19767.7	19794.1
57.5°	13196.0	13394.0	13892.8	15333.8	19762.4	26246.9	27434.6	23686.9	23172.2	22430.6	22557.3
60°	10044.8	10168.9	10427.6	12024.3	17368.7	26856.6	33246.2	28134.0	27806.7	25083.1	25172.8
62.5°	7133.8	7273.6	7453.1	8250.2	12715.8	25138.5	37796.1	34344.1	33174.8	27830.5	27743.4
65°	5793.1	5698.0	5914.5	6286.6	7461.0	19482.7	38820.1	42963.7	41353.8	31448.9	30240.1
67.5°	4763.8	4663.5	4877.3	5539.7	5674.3	11309.0	35130.5	48558.8	48236.8	35383.9	32776.4
69°	4217.4	4164.6	4352.1	5106.9	5447.3	8031.1	30604.2	49337.4	49414.0	37703.8	33166.9
70°	3800.5	3821.6	4003.7	4887.8	5344.4	6621.8	26157.2	48263.2	48912.5	38862.4	32744.7
72.5°	2797.6	2842.4	3095.8	4048.6	5246.7	5618.9	15566.1	42156.1	43304.2	38931.0	29955.1
75°	1955.7	1934.6	2158.8	3048.3	4956.4	5568.8	9142.3	32602.2	33903.3	33649.9	25170.1
77.5°	1280.0	1314.3	1493.8	2153.6	4169.9	5526.5	5959.3	23130.0	23974.6	22504.6	14887.8
80°	902.6	900.0	1000.3	1470.1	3093.1	5310.1	4879.9	14579.0	14365.2	8844.0	4415.4
82.5°	517.3	554.2	670.4	1034.6	2069.1	4674.0	4489.3	6972.8	6365.8	2520.5	1491.2
85°	287.7	300.9	398.5	625.5	1208.8	3520.7	3919.2	3172.3	2992.9	1053.0	641.3
87.5°	92.3	100.3	166.3	316.7	548.9	1662.7	2219.6	1464.8	1351.2	380.0	258.6
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°	11005.5	11005.5	11005.5	11005.5	11005.5	11005.5	11005.5	11005.5	11005.5	11005.5	11005.5
2.5°	11021.3	11053.0	10968.6	10886.7	10812.8	10709.9	10617.5	10541.0	10488.2	10480.3	10453.9
5°	11058.3	11060.9	10899.9	10683.6	10472.4	10240.1	10000.0	9828.4	9667.5	9577.7	9532.8
7.5°	11084.7	11060.9	10770.6	10419.6	10013.2	9590.9	9168.6	8830.8	8569.5	8466.6	8506.2
10°	11074.1	11000.2	10575.3	10013.2	9422.0	8791.2	8184.2	7709.1	7273.6	7049.3	7054.6
12.5°	11016.1	10894.7	10285.0	9556.6	8688.3	7843.8	6914.7	6273.4	5769.3	5471.0	5378.7
15°	10965.9	10754.8	9944.6	8936.4	7857.0	6650.8	5518.6	4726.8	4304.6	4069.7	4067.0
17.5°	10913.2	10620.1	9572.4	8279.2	6901.5	5349.7	4162.0	3557.7	3359.7	3383.4	3343.9
20°	10857.7	10461.9	9184.5	7548.1	5737.6	3990.5	3116.9	2871.4	2926.8	3035.1	3050.9
22.5°	10794.4	10292.9	8767.4	6743.2	4513.1	3003.5	2528.4	2491.4	2633.9	2802.8	2826.6
25°	10696.7	10081.8	8242.2	5901.3	3481.2	2420.1	2214.3	2240.7	2380.5	2523.1	2538.9
27.5°	10559.5	9820.5	7711.8	4850.9	2615.4	2077.0	2024.3	2058.6	2127.2	2214.3	2235.4
30°	10374.7	9524.9	7102.1	3942.9	2095.5	1905.5	1884.4	1902.8	1942.5	1979.4	1990.0
32.5°	10190.0	9239.9	6487.1	3019.3	1868.5	1792.0	1770.9	1770.9	1770.9	1776.2	1778.8
35°	10018.4	8970.7	5827.4	2351.5	1749.8	1702.3	1673.3	1641.5	1636.3	1617.8	1617.8
37.5°	9923.5	8725.2	5125.3	1968.9	1662.7	1628.4	1588.8	1536.0	1507.0	1509.6	1504.4
40°	9941.9	8564.2	4486.7	1752.5	1591.4	1554.5	1493.8	1433.1	1414.6	1414.6	1409.3
42.5°	10150.4	8511.4	3874.4	1638.9	1522.8	1480.6	1404.0	1348.6	1338.1	1335.4	1340.7
45°	10630.7	8640.8	3325.4	1565.0	1464.8	1401.4	1324.9	1274.7	1264.2	1264.2	1261.6
47.5°	11567.6	9060.4	2932.1	1517.6	1422.6	1340.7	1261.6	1211.4	1193.0	1187.7	1187.7
50°	13024.5	9970.9	2639.2	1475.3	1369.7	1285.3	1203.5	1145.4	1116.4	1113.7	1111.1
52.5°	15048.8	11390.8	2525.7	1443.7	1311.7	1227.3	1137.5	1082.1	1045.1	1037.2	1031.9
55°	17416.2	13372.9	2681.4	1419.9	1251.0	1161.3	1068.9	1010.8	976.5	960.7	958.1
57.5°	20158.3	15753.4	3272.6	1388.2	1195.6	1090.0	1000.3	942.2	905.3	886.8	881.5
60°	22620.7	18200.0	4304.6	1369.7	1148.0	1013.5	921.1	868.3	834.0	815.5	812.9
62.5°	25325.9	20533.0	5537.1	1419.9	1126.9	939.6	847.2	799.7	770.6	752.2	752.2
65°	28215.8	22868.7	6352.6	1588.8	1158.6	881.5	768.0	728.4	702.1	688.9	686.2
67.5°	30163.6	23676.3	5233.5	1763.0	1237.8	818.1	691.5	659.8	644.0	630.8	630.8
69°	29952.4	22654.9	3861.2	1807.9	1261.6	786.5	649.3	625.5	604.3	599.1	593.8
70°	29284.7	21491.1	3235.7	1778.8	1243.1	757.5	622.8	593.8	575.3	570.0	567.4
72.5°	26083.3	18638.1	2409.6	1546.6	1058.3	657.2	551.6	525.2	509.4	501.5	501.5
75°	21670.6	15233.5	1881.7	1229.9	828.7	554.2	472.4	451.3	438.1	432.9	430.2
77.5°	12145.6	8506.2	1351.2	963.3	628.1	448.7	395.9	377.4	364.2	358.9	358.9
80°	3383.4	2430.7	794.4	636.0	427.6	340.4	314.0	300.9	282.4	269.2	277.1
82.5°	1274.7	1053.0	454.0	382.7	271.8	227.0	219.1	208.5	200.6	182.1	182.1
85°	620.2	512.0	290.3	203.2	150.5	118.7	113.5	108.2	102.9	89.7	92.3
87.5°	213.8	227.0	126.7	73.9	44.8	29.0	23.7	13.2	13.2	13.2	13.2
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)