

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: P457681

Luminaire Tested: **GALN-SA9A-740-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457681
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-SA9A-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA 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: 41091 lumens
Efficiency: N/A
Efficacy: 150.0 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

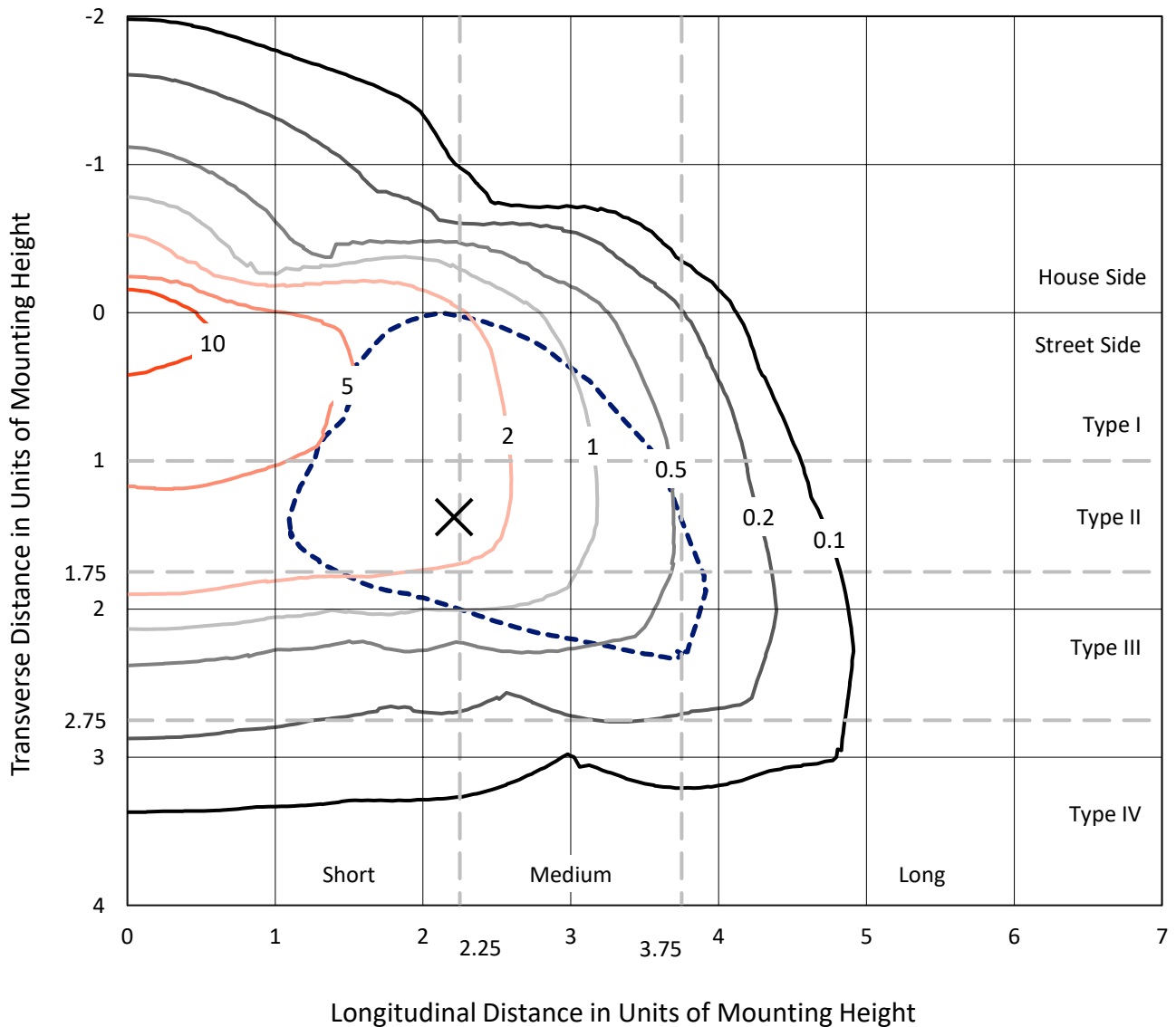
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

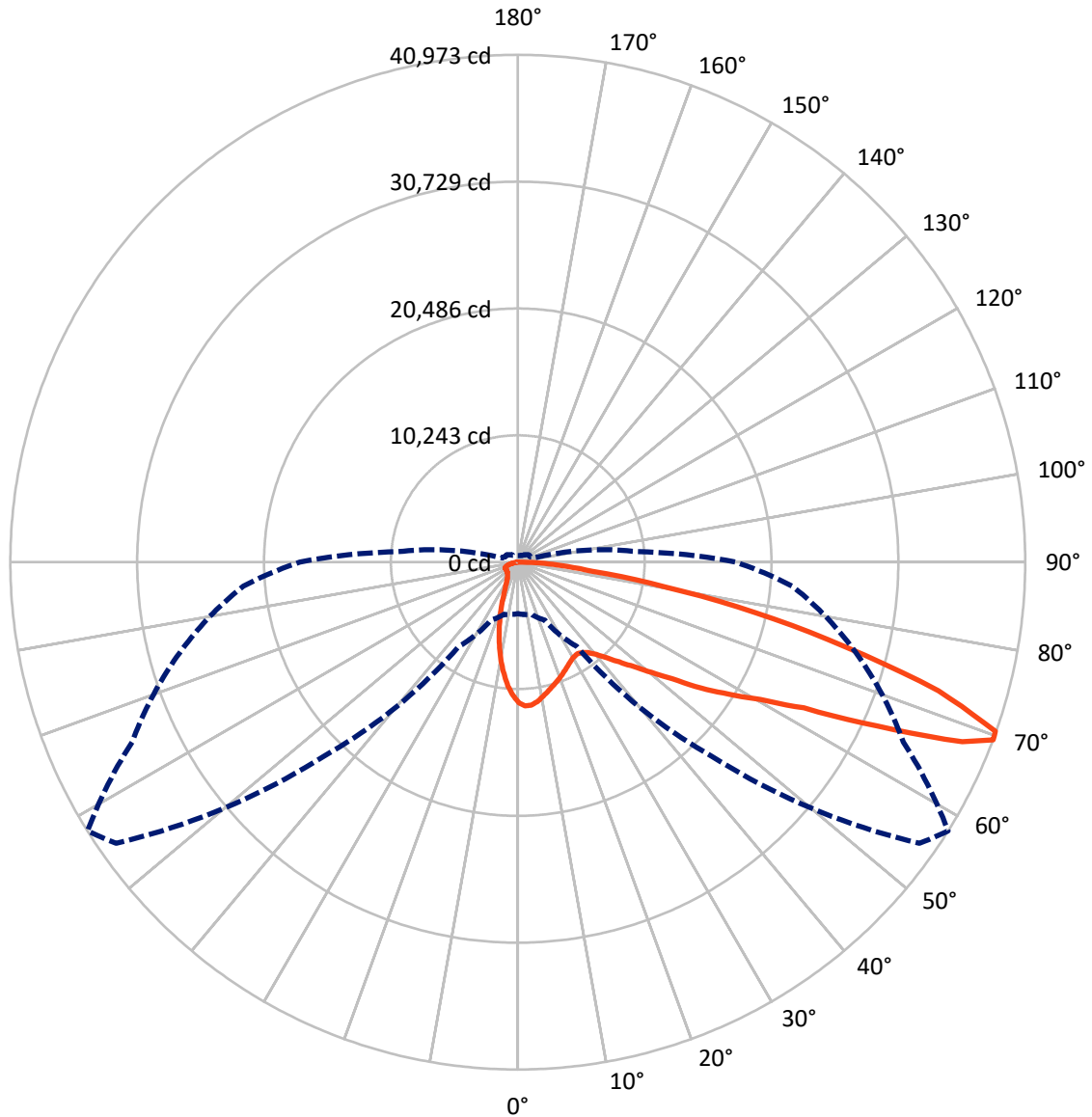
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 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	6021.9	0.0	6021.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	35069.1	0.0	35069.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	41091.0	0.0	41091.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	964.3	2.3
10°-20°	2117.5	5.2
20°-30°	2735.8	6.7
30°-40°	3553.3	8.6
40°-50°	5166.0	12.6
50°-60°	8243.3	20.1
60°-70°	11012.0	26.8
70°-80°	6348.0	15.4
80°-90°	950.8	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°	41091.0	100.0
0°-180°	41091.0	100.0

Coefficient of Utilization



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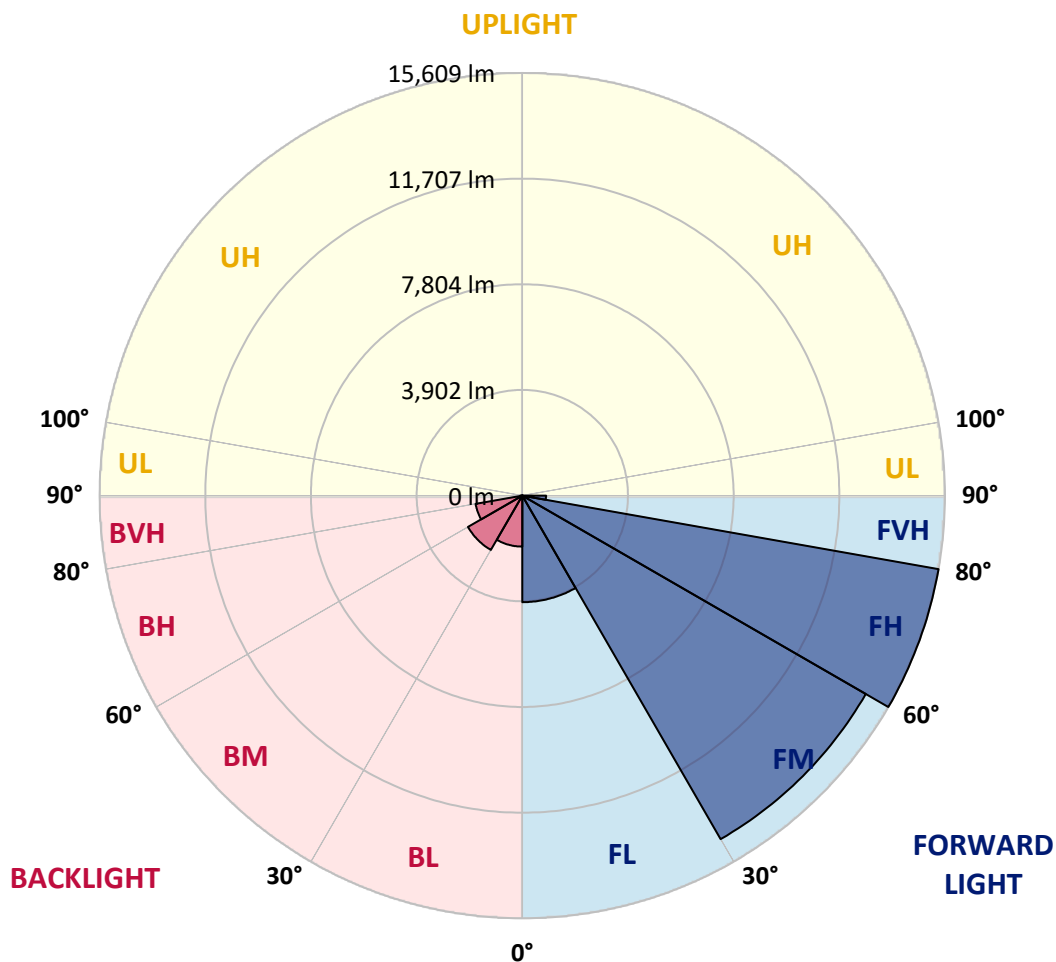
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3935.5	9.6			
FM	(30°-60°)	14646.8	35.6			
FH	(60°-80°)	15608.9	38.0			G5
FVH	(80°-90°)	877.9	2.1			G5
BL	(0°-30°)	1882.2	4.6	B3/2500		
BM	(30°-60°)	2315.8	5.6	B2/2500		
BH	(60°-80°)	1751.0	4.3	B3/2500		G3/2500
BVH	(80°-90°)	72.8	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°	11355.1	11355.1	11355.1	11355.1	11355.1	11355.1	11355.1	11355.1	11355.1	11355.1	11355.1
2.5°	11776.8	11808.9	11799.7	11788.3	11769.9	11719.5	11637.0	11623.3	11570.6	11458.3	11318.5
5°	11595.8	11623.3	11625.6	11641.6	11664.5	11655.4	11595.8	11588.9	11511.0	11359.7	11126.0
7.5°	10974.7	11011.4	11091.6	11181.0	11261.2	11336.8	11355.1	11366.6	11318.5	11144.3	10832.6
10°	10275.8	10312.4	10349.1	10482.0	10679.1	10867.0	11022.9	11043.5	11054.9	10894.5	10514.1
12.5°	9501.2	9576.8	9654.7	9851.8	10115.4	10411.0	10686.0	10729.5	10807.4	10686.0	10239.1
15°	8843.5	8921.4	9033.7	9210.2	9528.7	9954.9	10342.2	10413.3	10566.8	10504.9	9982.4
17.5°	8387.5	8415.0	8492.9	8694.5	9038.3	9487.4	10005.4	10147.4	10392.7	10376.6	9762.4
20°	8027.7	8062.0	8110.2	8233.9	8591.4	9065.8	9691.4	9874.7	10207.0	10262.0	9544.7
22.5°	7876.4	7901.6	7894.7	7961.2	8204.1	8680.8	9372.9	9590.6	10042.0	10184.1	9343.1
25°	7885.6	7908.5	7874.1	7858.1	8002.5	8341.6	9040.6	9317.9	9909.1	10131.4	9159.7
27.5°	8039.1	8055.2	7991.0	7926.8	7938.3	8130.8	8765.6	9072.7	9796.8	10154.3	9006.2
30°	8245.4	8275.2	8233.9	8156.0	8071.2	8080.4	8589.1	8891.6	9744.1	10234.5	8932.9
32.5°	8511.2	8538.7	8520.4	8458.5	8348.5	8227.0	8545.6	8825.2	9748.7	10397.2	8916.8
35°	8790.8	8845.8	8875.6	8871.0	8781.6	8570.8	8717.5	8948.9	9858.7	10669.9	9010.8
37.5°	9107.0	9152.9	9281.2	9363.7	9281.2	9036.0	9104.7	9265.2	10101.6	11064.1	9217.0
40°	9414.1	9482.9	9670.8	9927.4	9895.4	9679.9	9696.0	9801.4	10530.2	11650.8	9620.4
42.5°	9734.9	9817.4	10145.2	10525.6	10601.2	10433.9	10477.4	10571.4	11139.7	12464.3	10312.4
45°	10147.4	10246.0	10649.3	11123.7	11421.6	11318.5	11442.2	11488.1	11955.6	13523.1	11224.5
47.5°	10679.1	10793.7	11291.0	11882.2	12303.9	12397.8	12613.3	12585.8	12966.2	14776.6	12407.0
50°	11575.1	11639.3	12109.1	12711.8	13291.6	13715.6	13949.3	13992.8	14219.7	15995.7	13729.3
52.5°	12640.8	12698.1	13037.2	13564.3	14290.8	15189.1	15766.6	15624.5	15679.5	17480.7	15276.2
55°	13839.3	13935.5	14151.0	14501.6	15443.5	16765.7	17925.3	17959.7	17350.1	18901.6	16758.9
57.5°	14767.4	14930.1	15299.1	15798.7	16992.6	18518.9	20077.2	20100.1	19320.9	20418.6	18395.1
60°	14299.9	14492.4	15335.8	16552.6	19025.3	21578.2	22648.4	22517.8	21239.1	22146.5	20391.1
62.5°	12283.3	12317.6	13543.7	15445.7	19650.9	25671.1	26475.5	25923.2	23798.8	24337.4	22419.3
65°	7949.7	8174.3	9146.0	11811.2	17595.3	27942.1	33180.9	31904.4	27387.6	26823.8	24117.4
67.5°	5018.7	4961.4	5364.8	6744.3	12102.2	25941.5	38903.1	38701.5	32080.9	28393.6	23711.7
69°	4161.6	4225.8	4363.3	5170.0	8327.9	22148.8	39579.2	40972.5	34356.5	28269.8	22238.2
70°	3774.4	3804.1	3948.5	4583.3	6425.8	18550.9	38470.0	40910.6	35250.2	27751.9	21170.3
72.5°	2995.2	2992.9	3240.4	3813.3	4803.3	10589.7	31588.2	35518.3	34251.1	25341.1	17492.2
75°	2275.6	2312.3	2585.0	3226.6	4425.2	5786.4	22043.4	27353.2	27355.5	20015.3	10915.1
77.5°	1640.8	1663.7	1982.3	2708.7	4168.5	4691.0	14682.6	19618.9	18443.2	9171.2	3430.6
80°	1074.8	1088.5	1331.5	2145.0	3758.3	4425.2	8706.0	12008.3	8699.1	2433.7	1134.4
82.5°	589.0	657.7	813.5	1388.7	3015.8	4088.3	5291.4	6077.5	3263.3	1084.0	591.2
85°	295.6	314.0	458.3	811.2	1970.8	3382.5	3685.0	3485.6	1684.4	538.5	307.1
87.5°	87.1	110.0	190.2	314.0	799.8	1762.3	2051.0	1840.2	648.5	194.8	64.2
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°	11355.1	11355.1	11355.1	11355.1	11355.1	11355.1	11355.1	11355.1	11355.1	11355.1	11355.1
2.5°	11261.2	11219.9	11036.6	10871.6	10720.4	10559.9	10424.7	10305.6	10317.0	10319.3	10197.9
5°	11004.5	10910.6	10562.2	10236.8	9961.8	9613.5	9315.6	9123.1	9026.8	8898.5	8944.3
7.5°	10656.2	10475.2	9991.6	9450.8	8944.3	8492.9	8002.5	7665.6	7450.2	7241.6	7269.1
10°	10296.4	10005.4	9301.8	8586.8	7931.4	7209.5	6583.9	6047.7	5648.9	5500.0	5401.4
12.5°	9927.4	9544.7	8651.0	7700.0	6794.8	5930.8	5043.9	4468.7	4028.7	3795.0	3824.8
15°	9590.6	9125.4	7972.7	6813.1	5637.5	4608.5	3723.9	3176.2	2869.2	2805.0	2841.7
17.5°	9278.9	8669.3	7337.9	5951.4	4578.7	3455.8	2798.1	2488.7	2365.0	2330.6	2328.3
20°	8958.1	8282.0	6625.2	5030.2	3568.1	2678.9	2296.2	2151.9	2128.9	2142.7	2145.0
22.5°	8632.7	7803.1	5891.8	4115.8	2841.7	2190.8	2007.5	1968.5	1986.9	2018.9	2023.5
25°	8332.5	7381.4	5186.0	3313.7	2268.7	1925.0	1835.6	1835.6	1876.9	1925.0	1927.3
27.5°	8085.0	6973.5	4482.5	2630.8	1899.8	1732.5	1702.7	1718.7	1776.0	1812.7	1815.0
30°	7881.0	6593.1	3817.9	2108.3	1670.6	1578.9	1572.1	1599.6	1640.8	1675.2	1677.5
32.5°	7727.5	6258.5	3196.9	1771.4	1512.5	1462.1	1459.8	1480.4	1503.3	1512.5	1521.7
35°	7667.9	5981.2	2628.5	1558.3	1407.1	1375.0	1375.0	1372.7	1381.9	1386.5	1391.0
37.5°	7716.0	5768.1	2188.5	1420.8	1329.2	1306.2	1292.5	1278.7	1274.2	1274.2	1276.5
40°	7920.0	5655.8	1860.8	1331.5	1274.2	1239.8	1214.6	1198.5	1182.5	1187.1	1191.7
42.5°	8353.1	5676.4	1638.5	1271.9	1226.0	1177.9	1141.2	1122.9	1111.5	1125.2	1122.9
45°	9042.9	5882.7	1496.5	1230.6	1177.9	1116.0	1081.7	1063.3	1063.3	1084.0	1090.8
47.5°	10007.7	6276.8	1420.8	1198.5	1141.2	1067.9	1033.5	1019.8	1024.4	1058.7	1061.0
50°	11185.6	6962.0	1407.1	1182.5	1122.9	1033.5	994.6	980.8	992.3	1029.0	1033.5
52.5°	12484.9	7844.3	1473.5	1184.8	1106.9	1012.9	962.5	941.9	953.3	983.1	992.3
55°	14024.9	8948.9	1645.4	1194.0	1084.0	1001.5	939.6	893.7	907.5	928.1	930.4
57.5°	15597.0	10342.2	1947.9	1196.2	1065.6	980.8	900.6	841.0	841.0	854.8	861.7
60°	17517.4	11859.3	2346.7	1198.5	1067.9	951.0	847.9	781.5	772.3	779.2	781.5
62.5°	19424.1	13128.9	2413.1	1191.7	1090.8	921.2	790.6	721.9	705.8	703.5	699.0
65°	20265.1	12892.8	1977.7	1159.6	1116.0	902.9	744.8	664.6	637.1	627.9	627.9
67.5°	18894.7	10906.0	1487.3	1116.0	1100.0	884.6	701.2	616.5	584.4	566.0	566.0
69°	17606.8	9700.6	1336.0	1086.2	1058.7	854.8	673.7	591.2	552.3	531.7	524.8
70°	16612.2	8871.0	1271.9	1061.0	1019.8	820.4	653.1	572.9	529.4	506.5	501.9
72.5°	13257.2	6959.8	1113.7	964.8	868.5	689.8	579.8	515.6	474.4	449.2	442.3
75°	7640.4	3772.1	923.5	838.7	699.0	536.2	490.4	449.2	417.1	394.2	387.3
77.5°	2351.2	1457.5	669.2	662.3	513.3	414.8	391.9	375.8	352.9	327.7	323.1
80°	990.0	742.5	453.7	446.9	341.5	288.7	281.9	279.6	270.4	249.8	242.9
82.5°	543.1	419.4	316.2	275.0	206.2	167.3	174.2	176.5	169.6	149.0	135.2
85°	265.8	229.2	153.5	123.7	94.0	59.6	57.3	68.7	64.2	45.8	50.4
87.5°	52.7	64.2	41.2	18.3	9.2	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)