

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: P457215

Luminaire Tested: **GALN-SA8C-740-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457215
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-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 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: 56668 lumens
Efficiency: N/A
Efficacy: 132.1 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

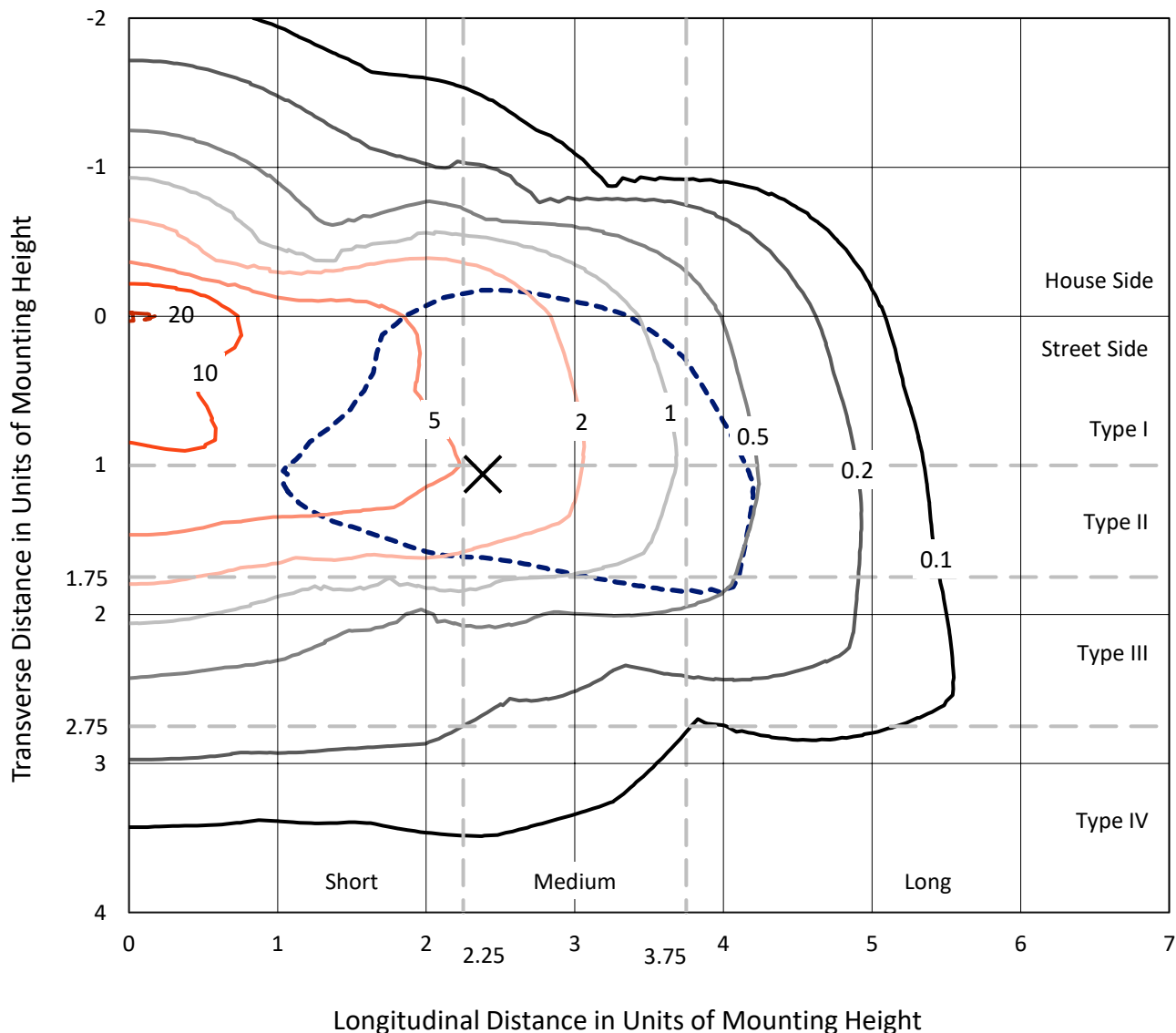
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

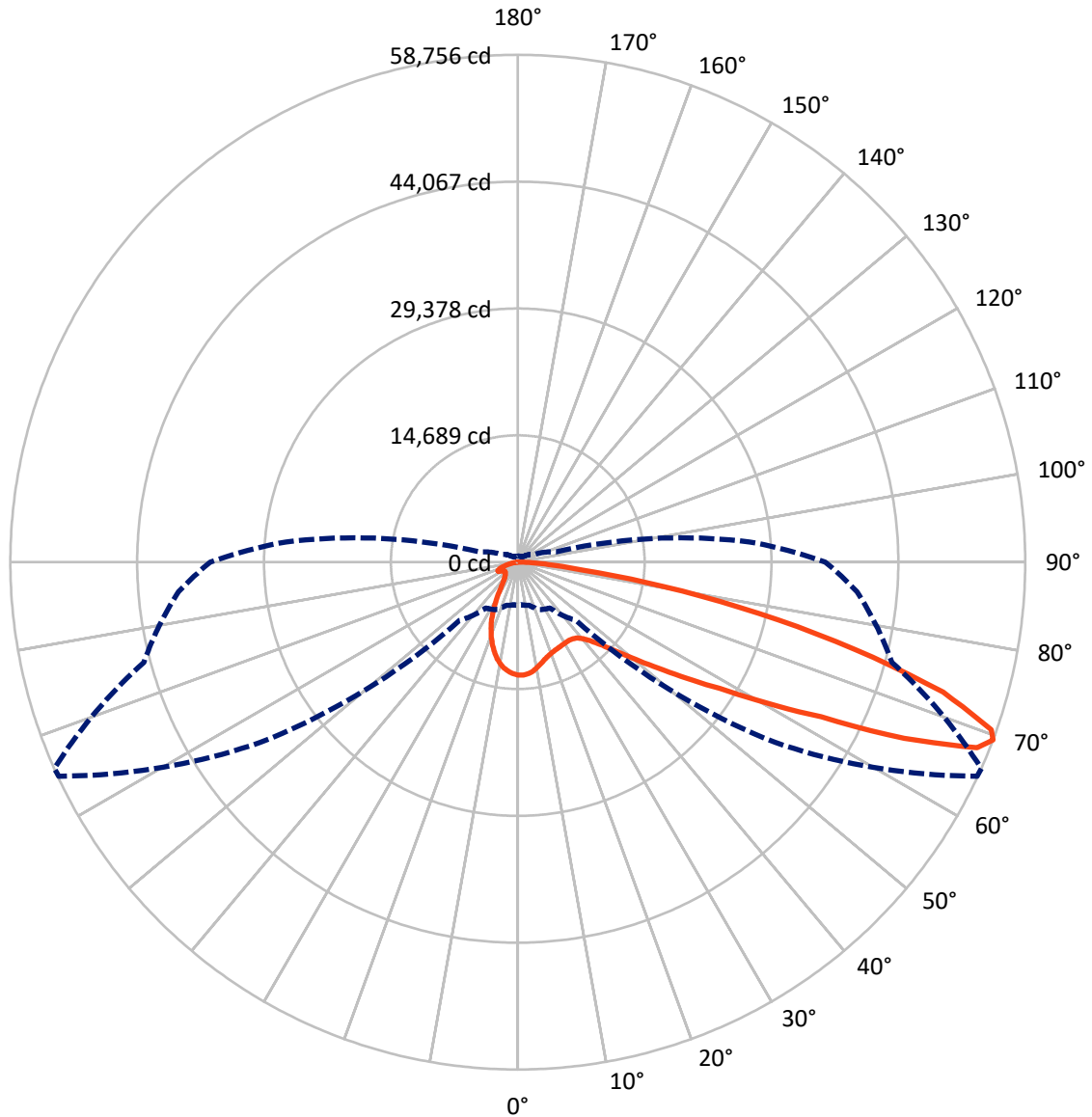
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.9 fc
 Type III - 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	10657.1	0.0	10657.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	46010.9	0.0	46010.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	56668.0	0.0	56668.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1136.4	2.0
10°-20°	2695.4	4.8
20°-30°	3669.5	6.5
30°-40°	4931.0	8.7
40°-50°	7362.8	13.0
50°-60°	11711.7	20.7
60°-70°	14404.8	25.4
70°-80°	9372.4	16.5
80°-90°	1384.0	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°	56668.0	100.0
0°-180°	56668.0	100.0

Coefficient of Utilization



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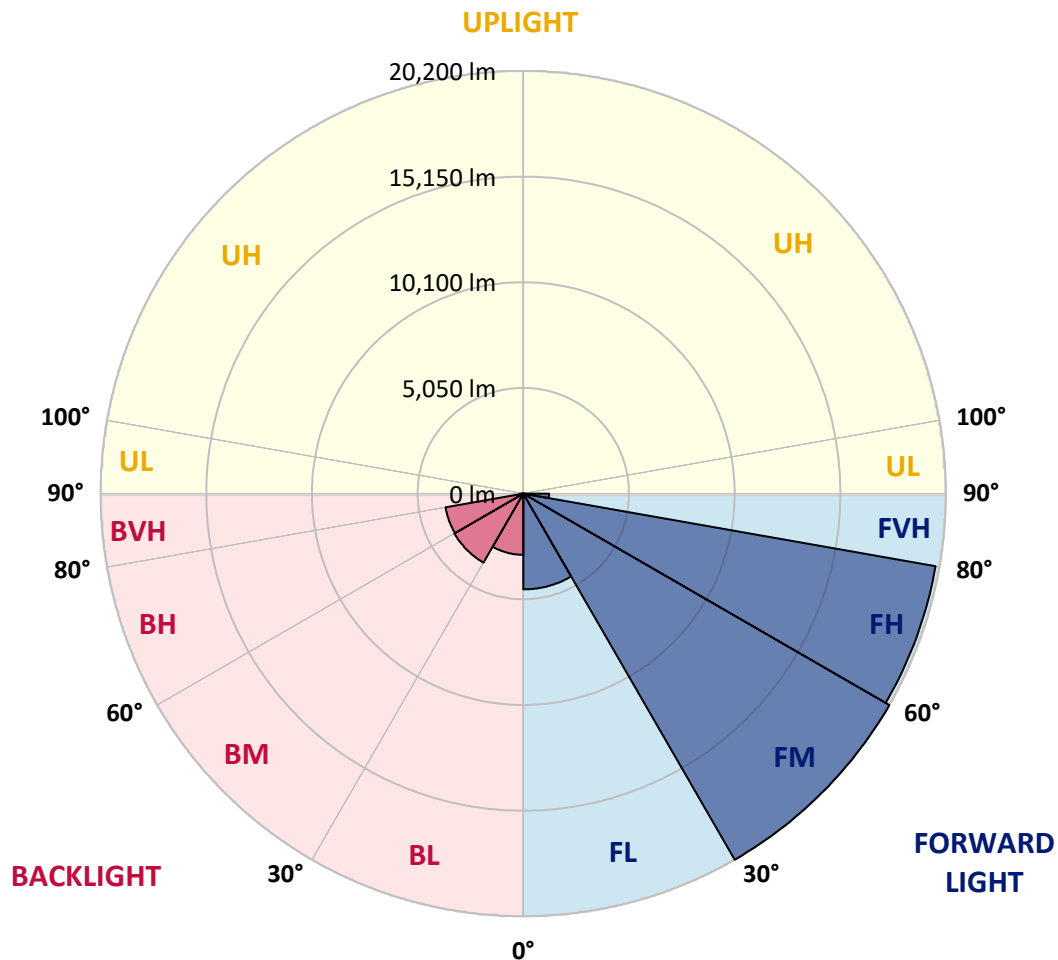
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4575.9	8.1			
FM	(30°-60°)	20200.4	35.6			
FH	(60°-80°)	20004.1	35.3			G5
FVH	(80°-90°)	1230.5	2.2			G5
BL	(0°-30°)	2925.4	5.2	B4/5000		
BM	(30°-60°)	3805.1	6.7	B3/5000		
BH	(60°-80°)	3773.1	6.7	B4/5000		G4/5000
BVH	(80°-90°)	153.5	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°	13086.2	13086.2	13086.2	13086.2	13086.2	13086.2	13086.2	13086.2	13086.2	13086.2	13086.2
2.5°	12628.0	12678.3	12734.7	12797.5	12916.8	12982.7	13029.7	13083.1	13089.4	13117.6	13095.6
5°	11696.0	11755.6	11840.4	11959.6	12138.5	12417.8	12706.5	12941.9	12970.1	13101.9	13139.6
7.5°	10917.7	10952.3	11021.3	11212.7	11466.9	11777.6	12198.1	12675.1	12744.2	13058.0	13167.8
10°	10283.8	10318.3	10399.9	10597.6	10848.7	11237.8	11699.1	12326.8	12383.3	12923.0	13174.1
12.5°	9810.0	9841.3	9929.2	10123.8	10412.5	10776.5	11284.9	11950.2	12031.8	12744.2	13114.5
15°	9449.1	9508.7	9580.9	9740.9	10045.3	10396.8	10889.5	11605.0	11670.9	12555.9	13073.7
17.5°	9295.3	9323.5	9373.7	9521.2	9744.1	10089.3	10585.1	11335.1	11413.6	12424.1	13064.2
20°	9301.6	9329.8	9339.2	9420.8	9580.9	9879.0	10368.6	11121.7	11215.9	12307.9	13079.9
22.5°	9515.0	9518.1	9483.6	9455.3	9518.1	9766.0	10214.8	10961.7	11071.5	12257.7	13092.5
25°	9844.5	9901.0	9850.8	9718.9	9602.8	9722.1	10155.2	10873.8	10977.4	12185.6	13076.8
27.5°	10378.0	10387.4	10346.6	10167.7	9866.4	9778.6	10130.0	10807.9	10895.8	12132.2	12998.3
30°	11093.5	11065.2	11027.6	10829.9	10356.0	9995.1	10183.4	10748.3	10839.3	12053.8	12904.2
32.5°	11818.4	11906.3	11871.7	11639.5	11024.4	10415.6	10356.0	10742.0	10817.3	11994.1	12800.6
35°	12587.2	12628.0	12791.2	12672.0	12041.2	11096.6	10679.2	10839.3	10898.9	11997.3	12728.5
37.5°	13189.8	13299.6	13682.5	13786.0	13192.9	11997.3	11203.3	11115.4	11140.5	12151.0	12756.7
40°	13917.8	14106.1	14598.8	15022.5	14633.3	13167.8	12094.6	11627.0	11658.3	12521.3	12941.9
42.5°	14840.5	14972.3	15634.4	16208.7	16145.9	14714.9	13174.1	12464.9	12480.5	13258.8	13459.7
45°	15920.0	16108.3	16852.0	17715.0	17862.5	16466.0	14733.8	13732.7	13723.3	14404.3	14426.2
47.5°	17300.8	17416.9	18154.4	19095.8	19692.1	18665.9	16626.1	15552.8	15452.4	16073.8	15894.9
50°	18571.8	18753.8	19312.4	20341.7	21826.1	21242.3	19114.7	17912.7	17677.4	18257.9	17956.7
52.5°	19105.2	19296.7	19767.4	21044.6	23655.6	24575.1	22274.8	20727.7	20335.4	20781.0	20671.2
55°	18179.5	18427.4	18866.7	20420.1	24459.0	28419.4	26536.5	23982.0	23696.4	23505.0	23536.4
57.5°	15690.9	15926.3	16519.4	18232.8	23498.7	31209.2	32621.4	28165.2	27553.2	26671.4	26822.0
60°	11943.9	12091.4	12399.0	14297.6	20652.4	31934.1	39531.7	33453.0	33063.9	29825.3	29932.0
62.5°	8482.5	8648.8	8862.2	9810.0	15119.8	29891.2	44941.9	40837.2	39446.9	33092.1	32988.6
65°	6888.3	6775.3	7032.7	7475.1	8871.6	23166.1	46159.5	51086.5	49172.2	37394.6	35957.3
67.5°	5664.4	5545.2	5799.4	6587.0	6747.1	13447.1	41772.3	57739.4	57356.5	42073.6	38973.1
69°	5014.8	4952.0	5174.9	6072.4	6477.2	9549.5	36390.3	58665.2	58756.2	44832.1	39437.5
70°	4519.0	4544.1	4760.6	5811.9	6354.8	7873.7	31102.5	57387.9	58159.9	46209.7	38935.4
72.5°	3326.5	3379.8	3681.1	4814.0	6238.7	6681.2	18509.0	50126.2	51491.3	46291.3	35618.4
75°	2325.4	2300.3	2567.0	3624.6	5893.5	6621.6	10870.7	38766.0	40313.1	40011.8	29928.8
77.5°	1522.0	1562.8	1776.2	2560.8	4958.3	6571.4	7086.0	27503.0	28507.2	26759.3	17702.5
80°	1073.3	1070.1	1189.4	1748.0	3677.9	6314.0	5802.5	17335.3	17081.1	10516.0	5250.2
82.5°	615.1	659.0	797.1	1230.2	2460.3	5557.7	5338.0	8291.1	7569.3	2997.0	1773.1
85°	342.1	357.8	473.9	743.7	1437.3	4186.3	4660.2	3772.1	3558.7	1252.1	762.6
87.5°	109.8	119.3	197.7	376.6	652.7	1977.1	2639.2	1741.7	1606.7	451.9	307.5
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°	13086.2	13086.2	13086.2	13086.2	13086.2	13086.2	13086.2	13086.2	13086.2	13086.2	13086.2
2.5°	13105.0	13142.7	13042.3	12945.0	12857.1	12734.7	12624.9	12533.9	12471.1	12461.7	12430.3
5°	13149.0	13152.1	12960.7	12703.4	12452.3	12176.1	11890.6	11686.6	11495.2	11388.5	11335.1
7.5°	13180.4	13152.1	12806.9	12389.5	11906.3	11404.2	10902.0	10500.4	10189.7	10067.3	10114.4
10°	13167.8	13079.9	12574.7	11906.3	11203.3	10453.3	9731.5	9166.6	8648.8	8382.1	8388.4
12.5°	13098.8	12954.4	12229.5	11363.4	10330.9	9326.7	8222.0	7459.5	6860.1	6505.4	6395.6
15°	13039.1	12788.1	11824.7	10625.9	9342.4	7908.2	6561.9	5620.5	5118.4	4839.1	4835.9
17.5°	12976.4	12628.0	11382.2	9844.5	8206.3	6361.1	4948.9	4230.3	3994.9	4023.1	3976.1
20°	12910.5	12439.8	10920.9	8975.2	6822.4	4744.9	3706.2	3414.3	3480.2	3608.9	3627.7
22.5°	12835.2	12238.9	10425.0	8018.1	5366.3	3571.3	3006.4	2962.4	3131.9	3332.7	3361.0
25°	12719.0	11987.9	9800.5	7017.0	4139.3	2877.7	2632.9	2664.3	2830.6	3000.1	3018.9
27.5°	12555.9	11677.2	9169.8	5768.0	3109.9	2469.7	2407.0	2447.8	2529.4	2632.9	2658.0
30°	12336.2	11325.7	8444.8	4688.4	2491.7	2265.8	2240.7	2262.6	2309.7	2353.6	2366.2
32.5°	12116.5	10986.8	7713.6	3590.1	2221.8	2130.8	2105.7	2105.7	2105.7	2112.0	2115.1
35°	11912.5	10666.7	6929.1	2796.1	2080.6	2024.1	1989.6	1951.9	1945.7	1923.7	1923.7
37.5°	11799.6	10374.8	6094.3	2341.1	1977.1	1936.3	1889.2	1826.4	1791.9	1795.0	1788.8
40°	11821.5	10183.4	5334.9	2083.8	1892.3	1848.4	1776.2	1704.0	1682.1	1682.1	1675.8
42.5°	12069.4	10120.6	4606.9	1948.8	1810.7	1760.5	1669.5	1603.6	1591.1	1587.9	1594.2
45°	12640.6	10274.4	3954.1	1860.9	1741.7	1666.4	1575.4	1515.7	1503.2	1503.2	1500.1
47.5°	13754.6	10773.4	3486.5	1804.5	1691.5	1594.2	1500.1	1440.4	1418.5	1412.2	1412.2
50°	15486.9	11856.0	3138.2	1754.2	1628.7	1528.3	1431.0	1362.0	1327.5	1324.3	1321.2
52.5°	17893.9	13544.4	3003.2	1716.6	1559.7	1459.3	1352.6	1286.7	1242.7	1233.3	1227.0
55°	20708.9	15901.2	3188.4	1688.3	1487.5	1380.8	1271.0	1201.9	1161.1	1142.3	1139.2
57.5°	23969.4	18731.8	3891.3	1650.7	1421.6	1296.1	1189.4	1120.3	1076.4	1054.4	1048.2
60°	26897.4	21640.9	5118.4	1628.7	1365.1	1205.1	1095.2	1032.5	991.7	969.7	966.6
62.5°	30114.0	24415.0	6583.9	1688.3	1340.0	1117.2	1007.4	950.9	916.3	894.4	894.4
65°	33550.3	27192.3	7553.6	1889.2	1377.7	1048.2	913.2	866.1	834.8	819.1	815.9
67.5°	35866.3	28152.6	6223.0	2096.3	1471.8	972.8	822.2	784.5	765.7	750.0	750.0
69°	35615.2	26938.1	4591.2	2149.7	1500.1	935.2	772.0	743.7	718.6	712.4	706.1
70°	34821.3	25554.2	3847.4	2115.1	1478.1	900.7	740.6	706.1	684.1	677.8	674.7
72.5°	31014.6	22161.8	2865.2	1839.0	1258.4	781.4	655.9	624.5	605.7	596.3	596.3
75°	25767.6	18113.6	2237.5	1462.4	985.4	659.0	561.7	536.6	520.9	514.7	511.5
77.5°	14441.9	10114.4	1606.7	1145.4	746.9	533.5	470.7	448.8	433.1	426.8	426.8
80°	4023.1	2890.3	944.6	756.3	508.4	404.8	373.4	357.8	335.8	320.1	329.5
82.5°	1515.7	1252.1	539.8	455.0	323.2	269.9	260.5	247.9	238.5	216.5	216.5
85°	737.5	608.8	345.2	241.6	178.9	141.2	134.9	128.7	122.4	106.7	109.8
87.5°	254.2	269.9	150.6	87.9	53.3	34.5	28.2	15.7	15.7	15.7	15.7
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)