

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: P458288

Luminaire Tested: **GALN-SA9D-722-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458288
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-SA9D-722-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2200K, 1200mA 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: 51461 lumens
Efficiency: N/A
Efficacy: 93.2 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

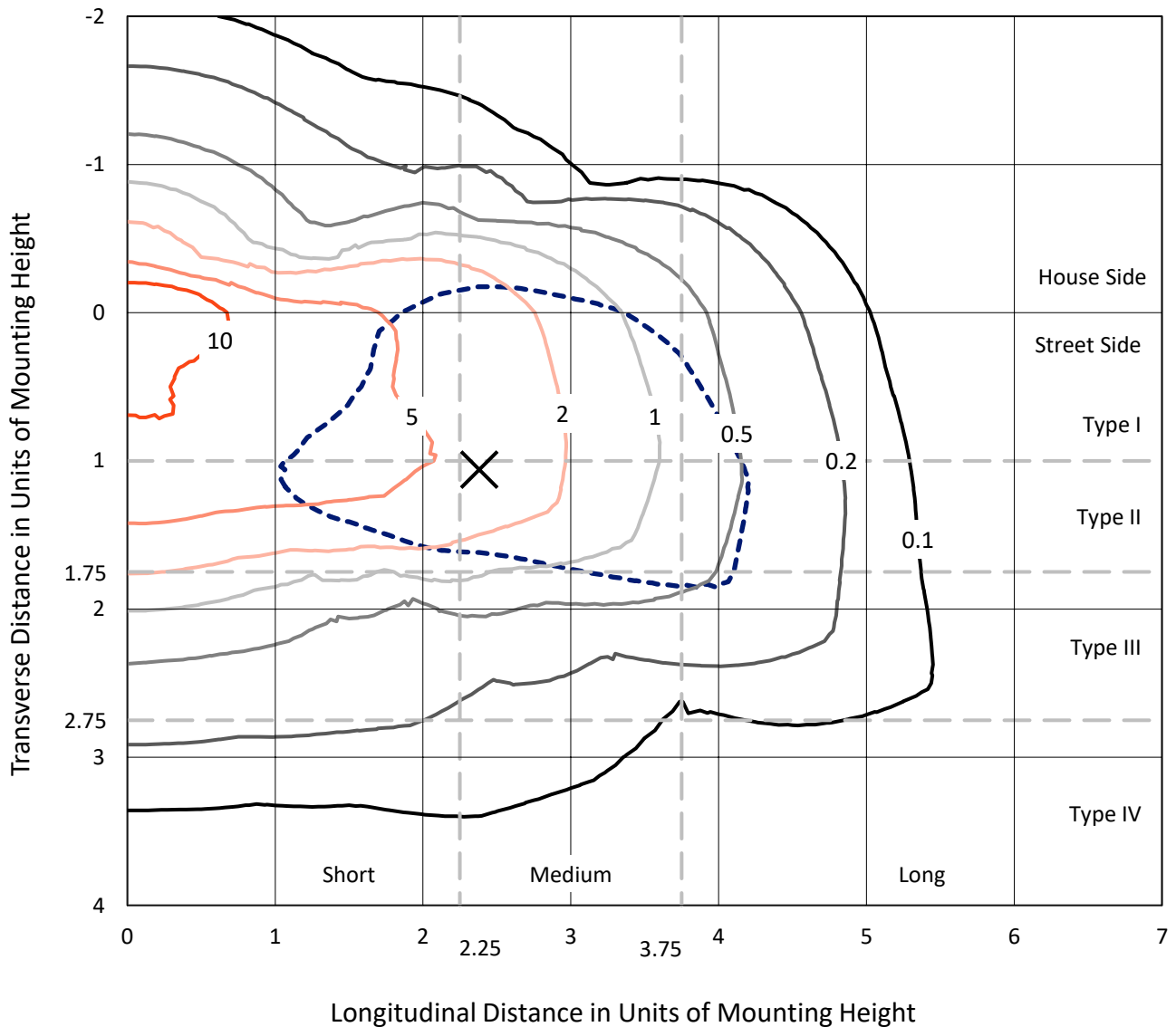
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

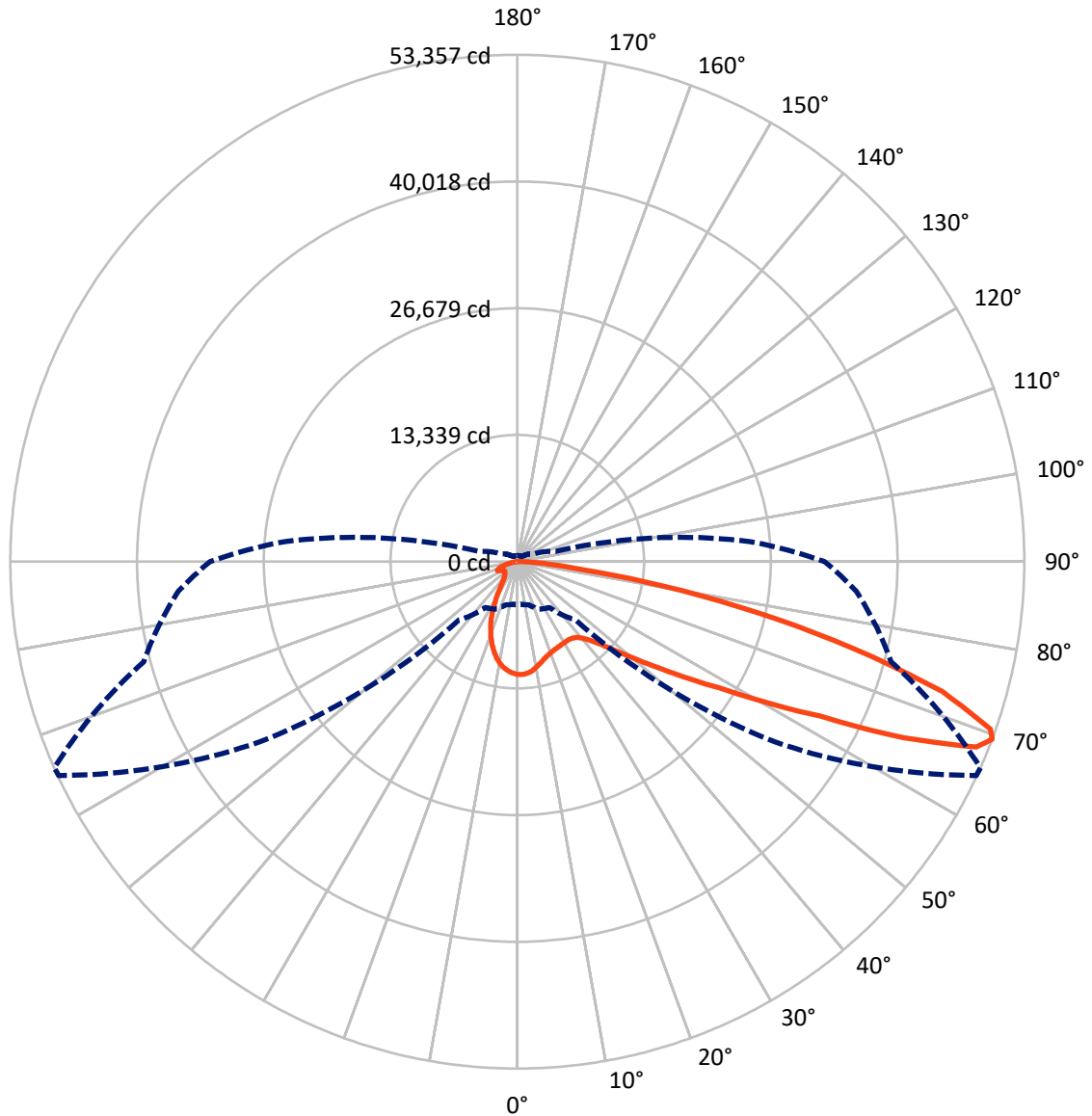
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 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	9677.9	0.0	9677.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	41783.1	0.0	41783.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	51461.0	0.0	51461.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1032.0	2.0
10°-20°	2447.8	4.8
20°-30°	3332.3	6.5
30°-40°	4477.9	8.7
40°-50°	6686.3	13.0
50°-60°	10635.6	20.7
60°-70°	13081.2	25.4
70°-80°	8511.2	16.5
80°-90°	1256.8	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°	51461.0	100.0
0°-180°	51461.0	100.0

Coefficient of Utilization



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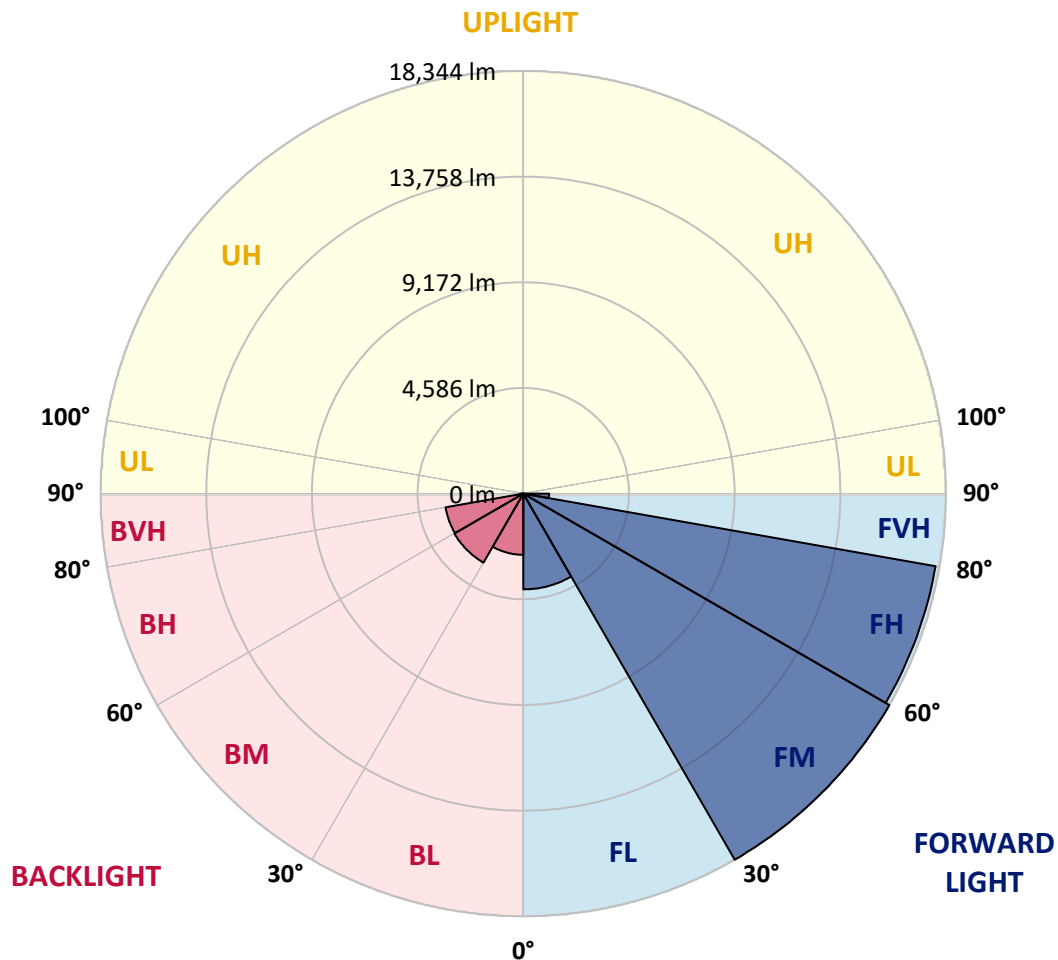
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4155.4	8.1			
FM	(30°-60°)	18344.3	35.6			
FH	(60°-80°)	18166.0	35.3			G5
FVH	(80°-90°)	1117.4	2.2			G5
BL	(0°-30°)	2656.6	5.2	B4/5000		
BM	(30°-60°)	3455.4	6.7	B3/5000		
BH	(60°-80°)	3426.4	6.7	B4/5000		G4/5000
BVH	(80°-90°)	139.4	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°	11883.8	11883.8	11883.8	11883.8	11883.8	11883.8	11883.8	11883.8	11883.8	11883.8	11883.8
2.5°	11467.7	11513.3	11564.6	11621.6	11729.9	11789.7	11832.5	11880.9	11886.6	11912.3	11892.3
5°	10621.3	10675.4	10752.4	10860.7	11023.1	11276.8	11538.9	11752.7	11778.3	11898.0	11932.2
7.5°	9914.5	9945.9	10008.6	10182.4	10413.3	10695.4	11077.3	11510.4	11573.1	11858.1	11957.9
10°	9338.9	9370.2	9444.3	9623.9	9851.8	10205.2	10624.2	11194.1	11245.4	11735.6	11963.6
12.5°	8908.6	8937.1	9016.8	9193.5	9455.7	9786.3	10248.0	10852.1	10926.2	11573.1	11909.4
15°	8580.8	8635.0	8700.5	8845.9	9122.3	9441.5	9888.9	10538.7	10598.5	11402.2	11872.4
17.5°	8441.2	8466.8	8512.4	8646.4	8848.7	9162.2	9612.5	10293.6	10364.8	11282.5	11863.8
20°	8446.9	8472.5	8481.1	8555.2	8700.5	8971.3	9415.8	10099.8	10185.3	11177.0	11878.1
22.5°	8640.7	8643.5	8612.2	8586.5	8643.5	8868.7	9276.2	9954.4	10054.2	11131.4	11889.5
25°	8939.9	8991.2	8945.6	8825.9	8720.5	8828.8	9222.0	9874.6	9968.7	11065.9	11875.2
27.5°	9424.4	9432.9	9395.9	9233.4	8959.9	8880.1	9199.2	9814.8	9894.6	11017.4	11804.0
30°	10074.1	10048.5	10014.3	9834.7	9404.4	9076.7	9247.7	9760.7	9843.3	10946.2	11718.5
32.5°	10732.4	10812.2	10780.9	10570.0	10011.4	9458.6	9404.4	9755.0	9823.4	10892.0	11624.4
35°	11430.7	11467.7	11615.9	11507.6	10934.8	10077.0	9698.0	9843.3	9897.4	10894.9	11558.9
37.5°	11977.8	12077.6	12425.2	12519.3	11980.7	10894.9	10173.9	10094.1	10116.9	11034.5	11584.5
40°	12639.0	12810.0	13257.4	13642.1	13288.7	11957.9	10983.2	10558.6	10587.1	11370.8	11752.7
42.5°	13476.8	13596.5	14197.8	14719.4	14662.4	13362.8	11963.6	11319.5	11333.8	12040.5	12222.9
45°	14457.2	14628.2	15303.6	16087.3	16221.2	14953.0	13379.9	12470.8	12462.3	13080.7	13100.7
47.5°	15711.1	15816.5	16486.2	17341.2	17882.7	16950.8	15098.4	14123.7	14032.5	14596.8	14434.4
50°	16865.3	17030.6	17537.8	18472.6	19820.5	19290.5	17358.3	16266.8	16053.1	16580.3	16306.7
52.5°	17349.7	17523.6	17951.1	19110.9	21482.0	22317.0	20228.1	18823.1	18466.9	18871.5	18771.8
55°	16509.0	16734.2	17133.2	18543.8	22211.5	25808.0	24098.1	21778.4	21519.0	21345.2	21373.7
57.5°	14249.1	14462.9	15001.5	16557.5	21339.5	28341.5	29623.9	25577.2	25021.5	24220.7	24357.5
60°	10846.4	10980.4	11259.7	12983.8	18754.7	28999.8	35899.3	30379.1	30025.8	27084.7	27181.6
62.5°	7703.1	7854.1	8047.9	8908.6	13730.5	27144.6	40812.4	37084.8	35822.3	30051.4	29957.4
65°	6255.4	6152.8	6386.5	6788.3	8056.5	21037.4	41918.1	46392.3	44653.9	33958.5	32653.3
67.5°	5143.9	5035.6	5266.5	5981.8	6127.1	12211.5	37934.0	52434.0	52086.3	38207.6	35392.0
69°	4554.0	4497.0	4699.4	5514.4	5882.0	8672.0	33046.6	53274.6	53357.3	40712.6	35813.8
70°	4103.7	4126.5	4323.2	5277.9	5770.9	7150.2	28244.6	52114.8	52815.8	41963.7	35357.8
72.5°	3020.8	3069.3	3342.8	4371.6	5665.5	6067.3	16808.3	45520.3	46759.9	42037.8	32345.5
75°	2111.7	2088.9	2331.2	3291.5	5352.0	6013.1	9871.8	35203.9	36608.9	36335.3	27178.8
77.5°	1382.2	1419.2	1613.0	2325.5	4502.7	5967.5	6434.9	24975.9	25887.8	24300.5	16075.9
80°	974.6	971.8	1080.1	1587.4	3340.0	5733.9	5269.3	15742.4	15511.6	9549.8	4767.8
82.5°	558.6	598.5	723.9	1117.1	2234.3	5047.0	4847.6	7529.2	6873.8	2721.6	1610.2
85°	310.6	324.9	430.3	675.4	1305.2	3801.7	4232.0	3425.5	3231.7	1137.1	692.5
87.5°	99.7	108.3	179.5	342.0	592.8	1795.4	2396.7	1581.7	1459.1	410.4	279.3
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°	11883.8	11883.8	11883.8	11883.8	11883.8	11883.8	11883.8	11883.8	11883.8	11883.8	11883.8
2.5°	11900.9	11935.1	11843.9	11755.5	11675.7	11564.6	11464.9	11382.2	11325.2	11316.7	11288.2
5°	11940.8	11943.6	11769.8	11536.1	11308.1	11057.3	10798.0	10612.8	10438.9	10342.0	10293.6
7.5°	11969.3	11943.6	11630.1	11251.1	10812.2	10356.3	9900.3	9535.5	9253.4	9142.2	9185.0
10°	11957.9	11878.1	11419.3	10812.2	10173.9	9492.8	8837.3	8324.3	7854.1	7611.9	7617.6
12.5°	11895.2	11764.1	11105.8	10319.2	9381.6	8469.7	7466.5	6774.0	6229.7	5907.7	5807.9
15°	11841.0	11613.0	10738.1	9649.5	8483.9	7181.6	5959.0	5104.0	4648.1	4394.4	4391.6
17.5°	11784.0	11467.7	10336.3	8939.9	7452.3	5776.6	4494.2	3841.6	3627.8	3653.5	3610.7
20°	11724.2	11296.7	9917.4	8150.5	6195.5	4308.9	3365.6	3100.6	3160.5	3277.3	3294.4
22.5°	11655.8	11114.3	9467.1	7281.3	4873.2	3243.1	2730.1	2690.2	2844.1	3026.5	3052.2
25°	11550.3	10886.3	8900.0	6372.2	3758.9	2613.3	2391.0	2419.5	2570.5	2724.4	2741.5
27.5°	11402.2	10604.2	8327.2	5238.0	2824.2	2242.8	2185.8	2222.9	2297.0	2391.0	2413.8
30°	11202.7	10285.0	7668.9	4257.6	2262.8	2057.6	2034.8	2054.7	2097.5	2137.4	2148.8
32.5°	11003.2	9977.2	7004.9	3260.2	2017.7	1935.0	1912.2	1912.2	1912.2	1917.9	1920.8
35°	10817.9	9686.6	6292.4	2539.2	1889.4	1838.1	1806.8	1772.6	1766.9	1746.9	1746.9
37.5°	10715.3	9421.5	5534.4	2126.0	1795.4	1758.3	1715.6	1658.6	1627.3	1630.1	1624.4
40°	10735.3	9247.7	4844.7	1892.3	1718.4	1678.5	1613.0	1547.5	1527.5	1527.5	1521.8
42.5°	10960.4	9190.7	4183.5	1769.7	1644.3	1598.8	1516.1	1456.3	1444.9	1442.0	1447.7
45°	11479.1	9330.3	3590.8	1689.9	1581.7	1513.3	1430.6	1376.5	1365.1	1365.1	1362.2
47.5°	12490.8	9783.5	3166.2	1638.6	1536.1	1447.7	1362.2	1308.1	1288.1	1282.4	1282.4
50°	14063.9	10766.6	2849.8	1593.1	1479.1	1387.9	1299.5	1236.8	1205.5	1202.6	1199.8
52.5°	16249.7	12299.8	2727.3	1558.9	1416.4	1325.2	1228.3	1168.4	1128.5	1120.0	1114.3
55°	18806.0	14440.1	2895.4	1533.2	1350.8	1253.9	1154.2	1091.5	1054.4	1037.3	1034.5
57.5°	21767.0	17010.6	3533.8	1499.0	1291.0	1177.0	1080.1	1017.4	977.5	957.5	951.8
60°	24425.9	19652.4	4648.1	1479.1	1239.7	1094.3	994.6	937.6	900.5	880.6	877.7
62.5°	27346.9	22171.6	5978.9	1533.2	1216.9	1014.5	914.8	863.5	832.1	812.2	812.2
65°	30467.5	24693.7	6859.5	1715.6	1251.1	951.8	829.3	786.6	758.1	743.8	741.0
67.5°	32570.7	25565.8	5651.2	1903.7	1336.6	883.4	746.7	712.5	695.4	681.1	681.1
69°	32342.7	24462.9	4169.3	1952.1	1362.2	849.2	701.1	675.4	652.6	646.9	641.2
70°	31621.7	23206.1	3493.9	1920.8	1342.3	817.9	672.6	641.2	621.3	615.6	612.7
72.5°	28164.8	20125.5	2601.9	1670.0	1142.8	709.6	595.6	567.1	550.0	541.5	541.5
75°	23399.9	16449.2	2031.9	1328.0	894.8	598.5	510.1	487.3	473.1	467.4	464.5
77.5°	13114.9	9185.0	1459.1	1040.2	678.3	484.5	427.5	407.5	393.3	387.6	387.6
80°	3653.5	2624.7	857.8	686.8	461.7	367.6	339.1	324.9	304.9	290.7	299.2
82.5°	1376.5	1137.1	490.2	413.2	293.5	245.1	236.5	225.1	216.6	196.6	196.6
85°	669.7	552.9	313.5	219.4	162.4	128.2	122.5	116.8	111.1	96.9	99.7
87.5°	230.8	245.1	136.8	79.8	48.4	31.3	25.6	14.2	14.2	14.2	14.2
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)