

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: P457504

Luminaire Tested: **GALN-SA8D-760-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457504  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-760-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51125 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 493  
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

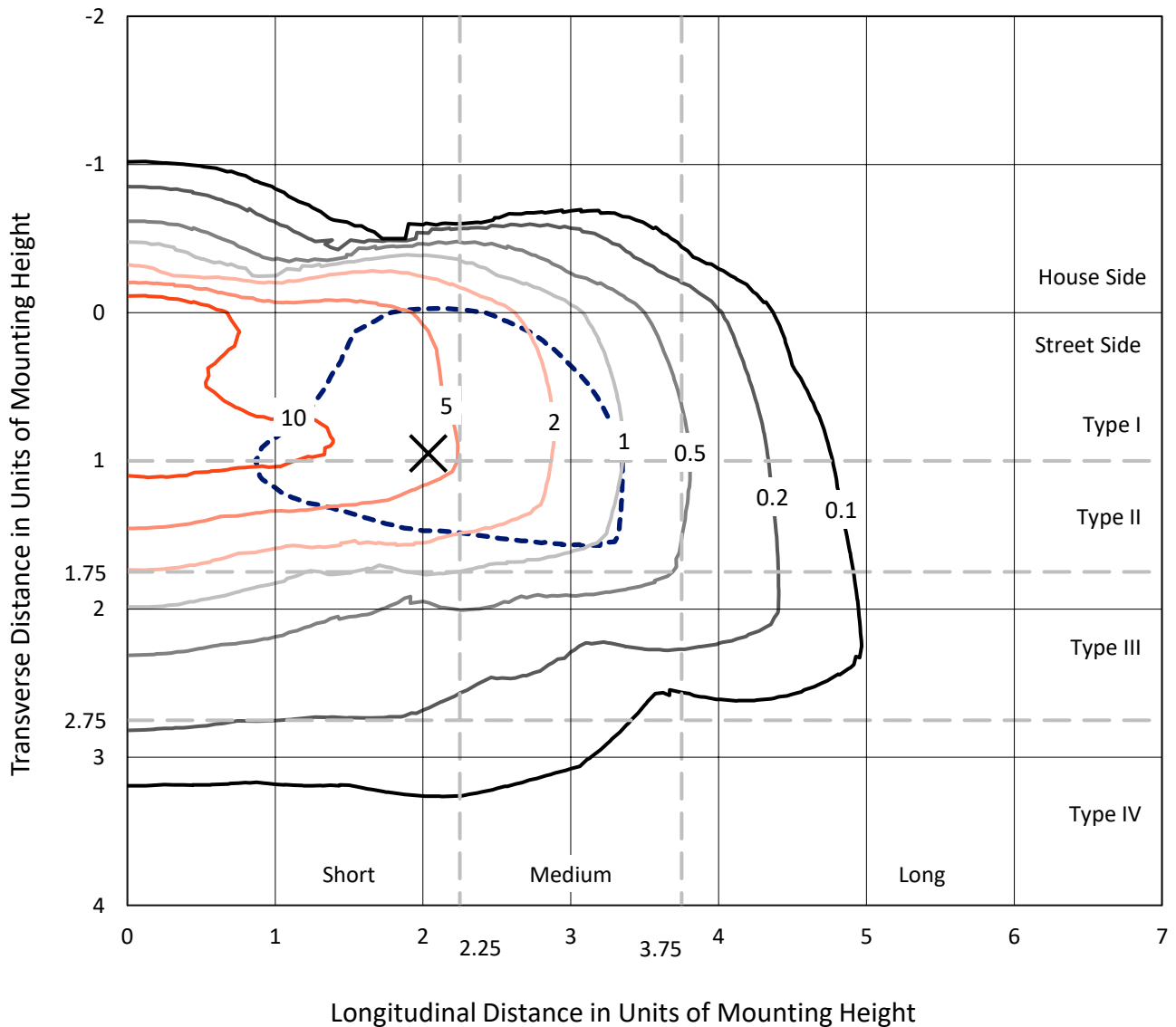




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### Iso-Footcandle Lines of Horizontal Illumination

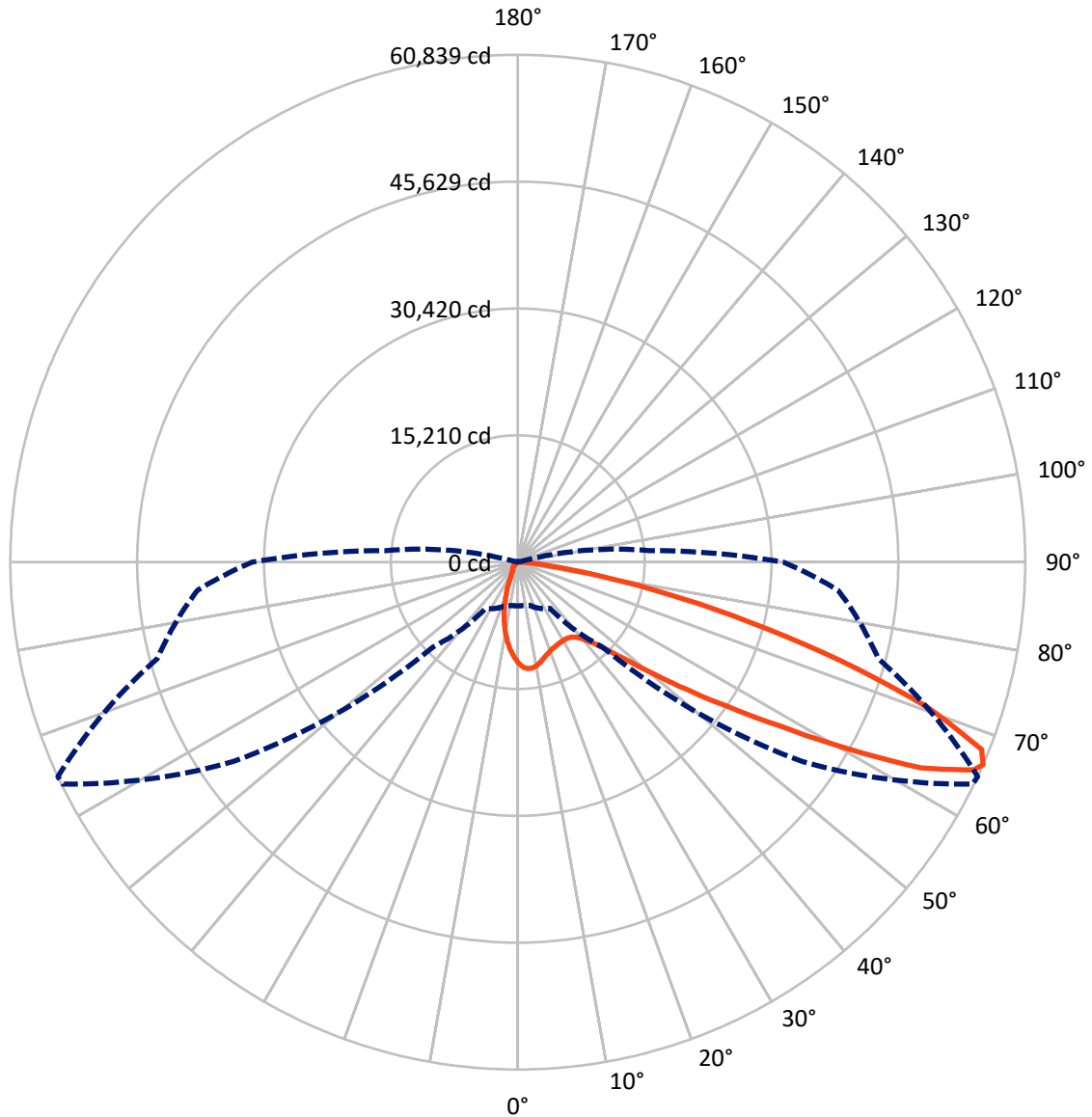
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5287.0	0.0	5287.0
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	45838.0	0.0	45838.0
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	51125.0	0.0	51125.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	991.5	1.9
10°-20°	2160.4	4.2
20°-30°	3094.8	6.1
30°-40°	4520.2	8.8
40°-50°	7579.5	14.8
50°-60°	12649.0	24.7
60°-70°	13426.5	26.3
70°-80°	6080.9	11.9
80°-90°	622.2	1.2
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°	51125.0	100.0
0°-180°	51125.0	100.0

**Coefficient of Utilization**



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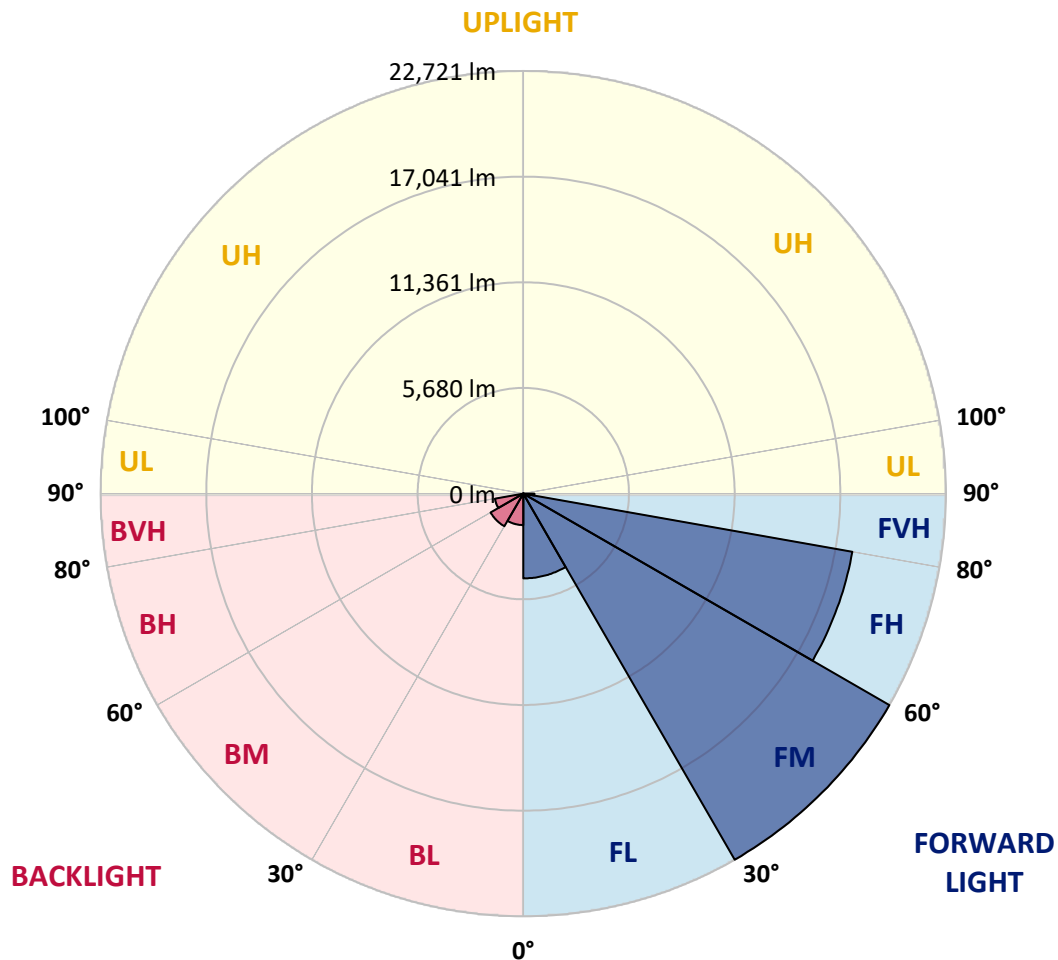
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4555.4	8.9			
FM (30°-60°)	22721.1	44.4			
FH (60°-80°)	17959.1	35.1			G5
FVH (80°-90°)	602.4	1.2			G4/750
BL (0°-30°)	1691.3	3.3	B3/2500		
BM (30°-60°)	2027.6	4.0	B2/2500		
BH (60°-80°)	1548.3	3.0	B3/2500		G3/2500
BVH (80°-90°)	19.8	0.0			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	12123.6	12123.6	12123.6	12123.6	12123.6	12123.6	12123.6	12123.6	12123.6	12123.6	12123.6
2.5°	12776.2	12790.1	12807.3	12831.5	12848.8	12797.0	12724.5	12641.6	12624.3	12448.2	12234.1
5°	12092.5	12113.3	12265.2	12348.1	12534.5	12703.7	12810.8	12824.6	12817.7	12651.9	12310.1
7.5°	11118.8	11177.5	11326.0	11471.0	11819.8	12140.9	12520.7	12786.6	12803.9	12759.0	12334.3
10°	10328.0	10366.0	10442.0	10728.6	11018.7	11509.0	12040.8	12541.4	12582.9	12762.4	12313.5
12.5°	9709.9	9765.2	9858.4	10079.4	10428.2	10890.9	11495.2	12168.5	12254.8	12696.8	12254.8
15°	9278.3	9305.9	9399.2	9616.7	9955.1	10383.3	10994.5	11778.3	11854.3	12610.5	12244.5
17.5°	9074.6	9105.7	9171.3	9343.9	9623.6	10020.7	10618.1	11464.1	11560.8	12555.3	12282.5
20°	9129.8	9157.5	9160.9	9250.7	9440.6	9775.6	10341.9	11170.6	11294.9	12520.7	12344.6
22.5°	9444.1	9447.5	9406.1	9364.6	9430.3	9672.0	10172.7	10984.1	11111.9	12513.8	12417.1
25°	9913.7	9924.0	9855.0	9709.9	9578.7	9703.0	10134.7	10863.3	10977.2	12496.6	12462.0
27.5°	10562.8	10559.4	10538.7	10297.0	9924.0	9841.2	10165.7	10797.7	10894.3	12448.2	12479.3
30°	11471.0	11443.4	11398.5	11125.7	10555.9	10176.1	10297.0	10756.2	10846.0	12379.1	12434.4
32.5°	12365.3	12468.9	12462.0	12203.0	11491.7	10773.5	10569.8	10811.5	10877.1	12334.3	12368.8
35°	13408.2	13404.7	13670.6	13573.9	12741.7	11536.6	11035.9	10994.5	11046.3	12365.3	12337.7
37.5°	14375.0	14464.8	14879.1	14979.3	14219.6	12614.0	11695.4	11388.1	11405.4	12576.0	12413.7
40°	15580.1	15752.8	16370.9	16705.8	16035.9	14212.7	12669.2	12109.8	12113.3	13093.9	12700.3
42.5°	17134.0	17406.8	17983.4	18542.8	18183.7	16105.0	14129.8	13252.8	13245.9	14005.5	13356.4
45°	19022.8	19212.7	19868.8	20756.2	20528.3	18746.6	16256.9	15024.2	14934.4	15500.7	14520.0
47.5°	20652.6	20911.6	21578.0	22589.8	23625.7	21971.7	18798.3	17458.6	17399.9	17879.8	16515.9
50°	21364.0	21591.9	22292.8	23712.0	26222.4	26205.1	22582.9	21011.7	20911.6	21170.6	19602.9
52.5°	20583.6	20797.7	21505.5	23273.5	27444.8	31364.0	28066.3	25469.6	25348.8	25017.3	23290.8
55°	17910.9	18087.0	19133.3	21163.7	26975.1	34803.2	35621.6	30977.2	30507.6	29219.6	27465.5
57.5°	14261.1	14171.3	14820.4	17178.9	24219.6	35956.5	43377.1	37838.4	36999.3	32852.2	30997.9
60°	9882.6	10158.8	10421.3	11975.1	18211.3	33957.2	48201.0	46464.1	45359.1	36426.1	34381.9
62.5°	7265.2	7448.2	7620.9	8339.1	11450.3	27113.3	49053.9	55324.6	54343.9	40221.0	37610.5
65°	5745.9	5759.7	5828.7	6536.6	7544.9	17631.2	44955.1	60321.2	60069.1	43874.3	38919.2
66°	5234.8	5238.3	5345.3	6105.0	6771.4	14357.7	41671.3	60701.0	60839.1	44751.4	38535.9
67.5°	4575.3	4561.5	4716.9	5486.9	6167.1	10352.2	35794.2	59160.9	59979.3	45424.7	37158.2
70°	3546.3	3529.0	3718.9	4602.9	5680.3	6906.1	23791.4	50797.7	52116.7	44047.0	32876.4
72.5°	2361.9	2375.7	2700.3	3632.6	5421.3	6080.8	14312.9	38643.0	40507.6	36374.3	25863.3
75°	1377.8	1401.9	1771.4	2700.3	4706.5	5797.7	8100.8	27555.3	28746.6	25117.4	16111.9
77.5°	721.7	732.0	991.0	1781.8	3608.4	5383.3	5397.1	17603.6	18163.0	12206.5	6377.8
80°	383.3	372.9	531.8	1073.9	2482.7	4727.2	4378.5	9319.8	9689.2	3625.7	1612.6
82.5°	145.0	158.8	283.1	704.4	1467.5	3394.3	3770.7	4119.5	3991.7	797.7	676.8
85°	27.6	34.5	120.9	417.8	739.0	1419.2	2779.7	2020.0	1871.5	300.4	390.2
87.5°	3.5	6.9	34.5	100.1	107.0	480.0	821.8	559.4	483.4	110.5	162.3
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°	12123.6	12123.6	12123.6	12123.6	12123.6	12123.6	12123.6	12123.6	12123.6	12123.6	12123.6
2.5°	12130.5	12037.3	11726.5	11419.2	11105.0	10821.8	10628.5	10314.2	10234.8	10120.9	10055.3
5°	12106.4	11888.8	11291.4	10638.8	10031.1	9375.0	8874.3	8390.9	8131.9	8000.7	7952.4
7.5°	12037.3	11692.0	10759.7	9737.6	8763.8	7783.2	6930.3	6281.1	5863.3	5576.7	5383.3
10°	11899.2	11422.7	10141.6	8736.2	7265.2	5970.3	4889.5	4067.7	3432.3	3232.0	3239.0
12.5°	11757.6	11122.2	9451.0	7624.3	5801.1	4167.8	3021.4	2372.2	2068.4	1968.2	1947.5
15°	11626.4	10835.6	8774.2	6547.0	4319.8	2700.3	1947.5	1719.6	1636.7	1619.5	1616.0
17.5°	11557.3	10569.8	8052.5	5314.2	3014.5	1833.6	1560.8	1498.6	1474.4	1457.2	1450.3
20°	11498.6	10338.4	7361.9	4160.9	2061.5	1502.1	1398.5	1339.8	1298.3	1281.1	1270.7
22.5°	11457.2	10100.1	6647.1	3221.7	1578.0	1332.9	1239.6	1163.7	1105.0	1084.3	1070.4
25°	11395.0	9837.7	5925.4	2355.0	1329.4	1184.4	1077.3	987.6	911.6	873.6	866.7
27.5°	11305.3	9540.7	5134.7	1743.8	1187.8	1053.2	922.0	811.5	735.5	694.1	697.5
30°	11160.2	9230.0	4343.9	1384.7	1073.9	918.5	776.9	669.9	597.4	566.3	562.8
32.5°	10987.6	8853.6	3618.8	1187.8	970.3	797.7	649.2	555.9	500.7	476.5	473.1
35°	10825.3	8473.8	2879.8	1067.0	863.3	687.2	545.6	466.2	424.7	404.0	407.5
37.5°	10735.5	8135.4	2244.5	970.3	776.9	590.5	469.6	400.6	362.6	345.3	341.9
40°	10794.2	7859.1	1785.2	884.0	680.2	507.6	404.0	345.3	307.3	283.1	283.1
42.5°	11070.4	7738.3	1439.9	801.1	590.5	438.5	352.2	297.0	255.5	231.4	234.8
45°	11913.0	7866.0	1205.1	725.1	507.6	379.8	303.9	245.2	207.2	189.9	186.5
47.5°	13311.5	8346.0	1042.8	645.7	435.1	324.6	255.5	203.7	165.7	151.9	148.5
50°	15756.2	9337.0	922.0	566.3	369.5	276.2	210.6	162.3	131.2	117.4	117.4
52.5°	19119.5	11498.6	835.6	476.5	310.8	234.8	172.7	131.2	103.6	93.2	89.8
55°	22634.7	13777.6	790.7	400.6	259.0	193.4	138.1	103.6	79.4	69.1	65.6
57.5°	26015.2	15566.3	739.0	324.6	207.2	148.5	107.0	79.4	55.2	48.3	44.9
60°	29257.6	17013.1	628.5	259.0	162.3	107.0	79.4	55.2	38.0	31.1	31.1
62.5°	32158.2	17855.7	493.8	207.2	124.3	76.0	51.8	41.4	27.6	20.7	20.7
65°	32496.6	16761.1	372.9	158.8	89.8	48.3	31.1	31.1	20.7	13.8	13.8
66°	31816.3	15832.2	328.0	145.0	79.4	41.4	27.6	24.2	17.3	10.4	10.4
67.5°	30297.0	14247.2	283.1	124.3	65.6	31.1	20.7	20.7	13.8	6.9	6.9
70°	26177.5	11636.7	224.4	93.2	48.3	24.2	13.8	13.8	10.4	6.9	6.9
72.5°	19951.7	8687.8	183.0	69.1	34.5	17.3	10.4	10.4	10.4	6.9	6.9
75°	12033.8	4678.9	141.6	51.8	31.1	13.8	6.9	10.4	13.8	10.4	6.9
77.5°	4433.7	1591.9	110.5	41.4	24.2	13.8	6.9	6.9	13.8	10.4	10.4
80°	1087.7	414.4	79.4	34.5	24.2	13.8	6.9	6.9	13.8	13.8	13.8
82.5°	504.1	176.1	55.2	31.1	24.2	13.8	6.9	6.9	10.4	13.8	13.8
85°	290.1	82.9	44.9	34.5	24.2	13.8	6.9	6.9	10.4	13.8	13.8
87.5°	117.4	41.4	41.4	34.5	27.6	17.3	6.9	6.9	6.9	10.4	10.4
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)