

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: P534317

Luminaire Tested: **GALN-SA9D-740-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534317  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-740-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

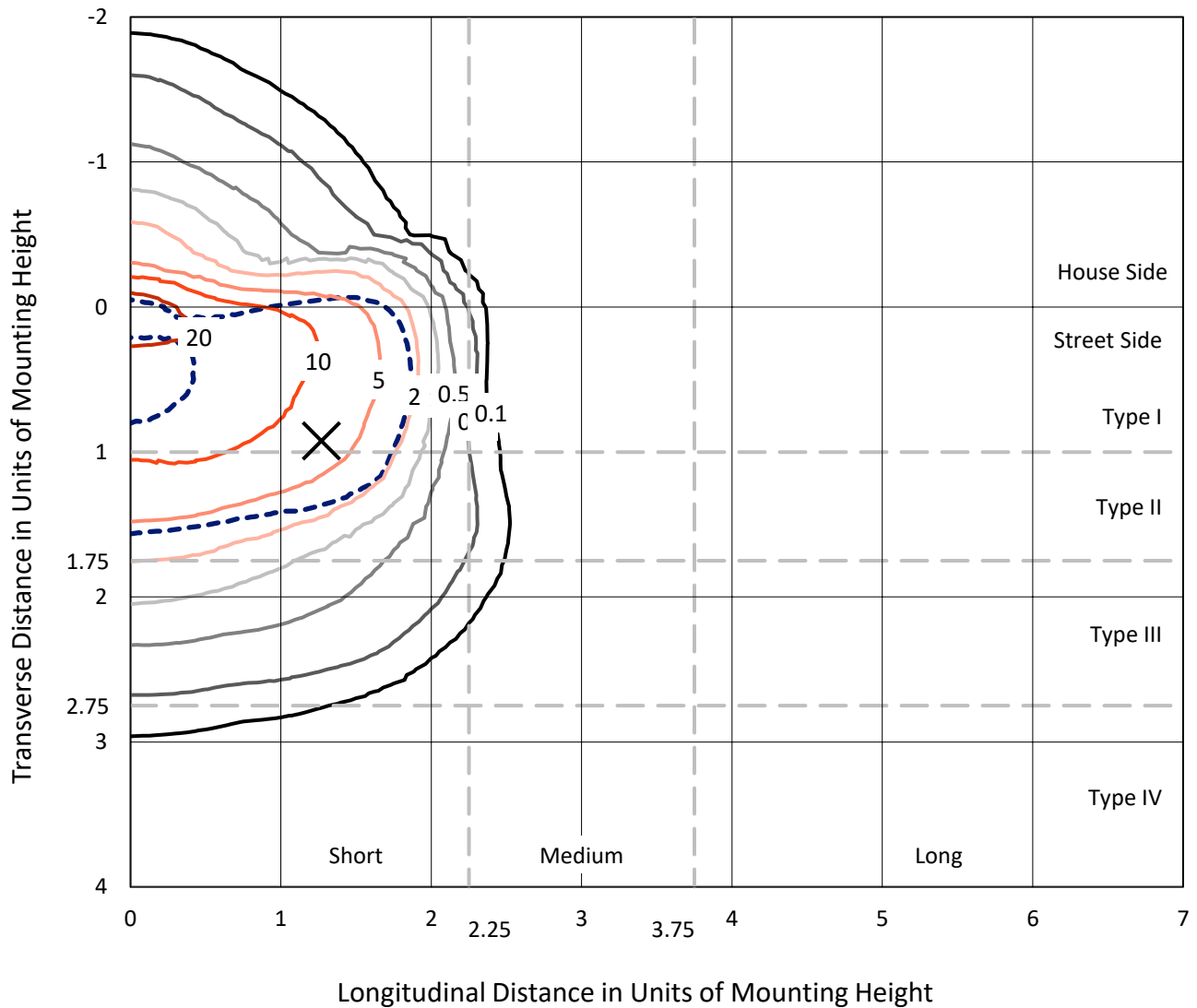
Lumens per Lamp: N/A  
Luminaire Lumens: 41013 lumens  
Efficiency: N/A  
Efficacy: 74.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

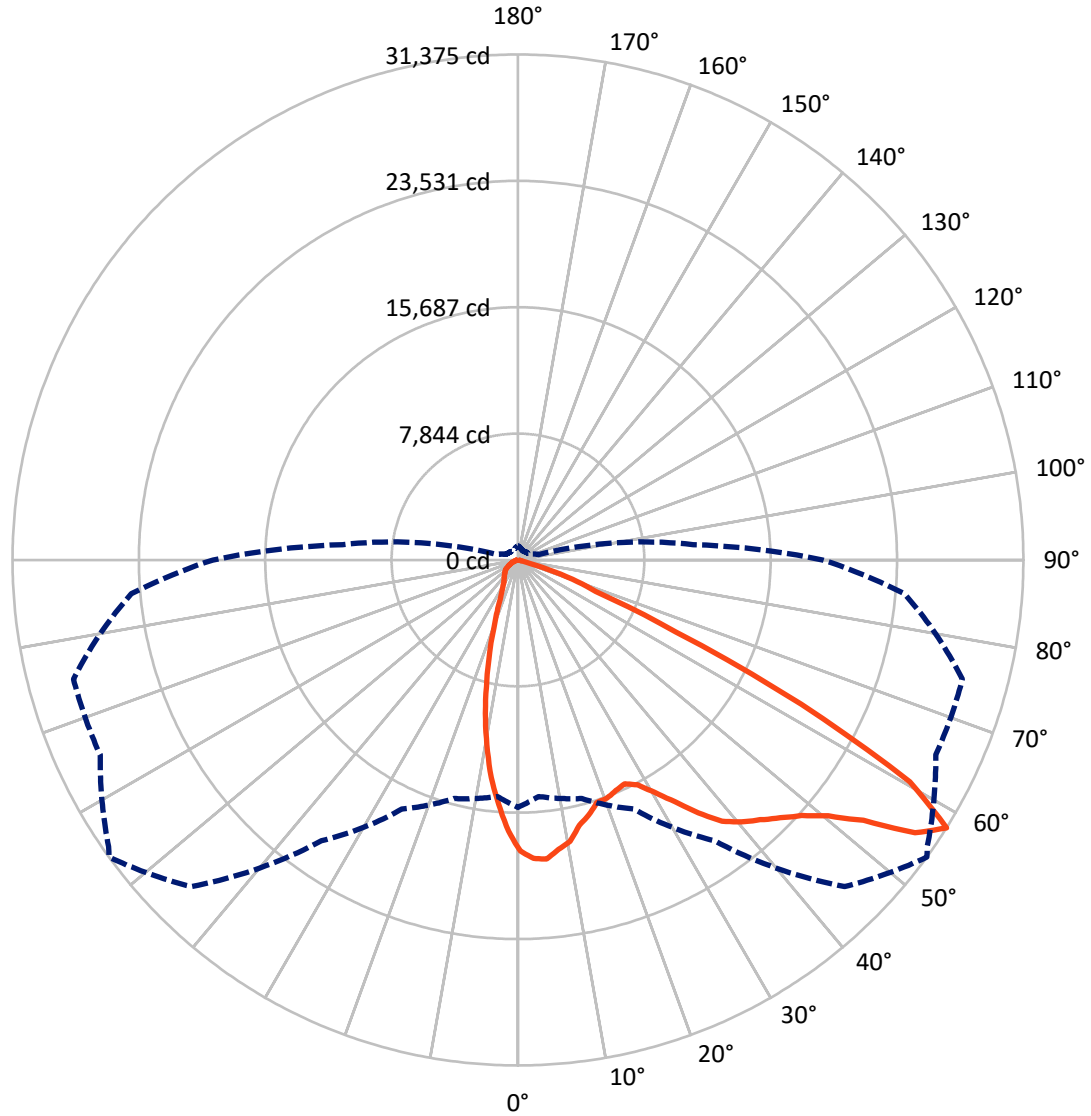
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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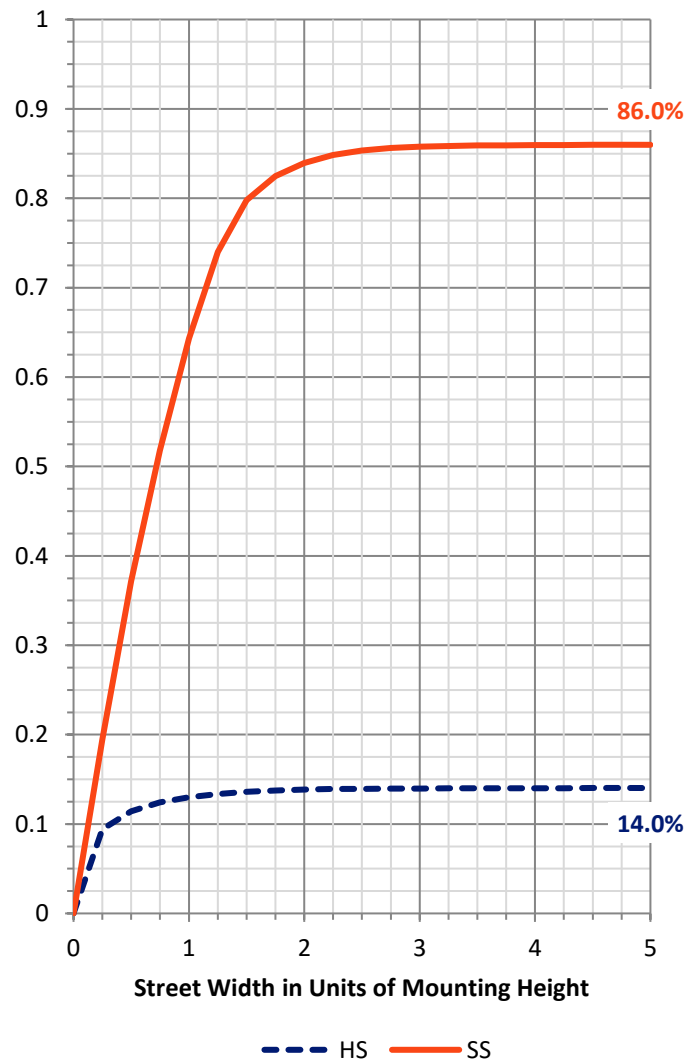
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5795.8	0.0	5795.8
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	35217.2	0.0	35217.2
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	41013.0	0.0	41013.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1511.9	3.7
10°-20°	3227.8	7.9
20°-30°	4277.5	10.4
30°-40°	6216.4	15.2
40°-50°	9218.0	22.5
50°-60°	11526.8	28.1
60°-70°	4546.8	11.1
70°-80°	452.7	1.1
80°-90°	35.2	0.1
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°	41013.0	100.0
0°-180°	41013.0	100.0



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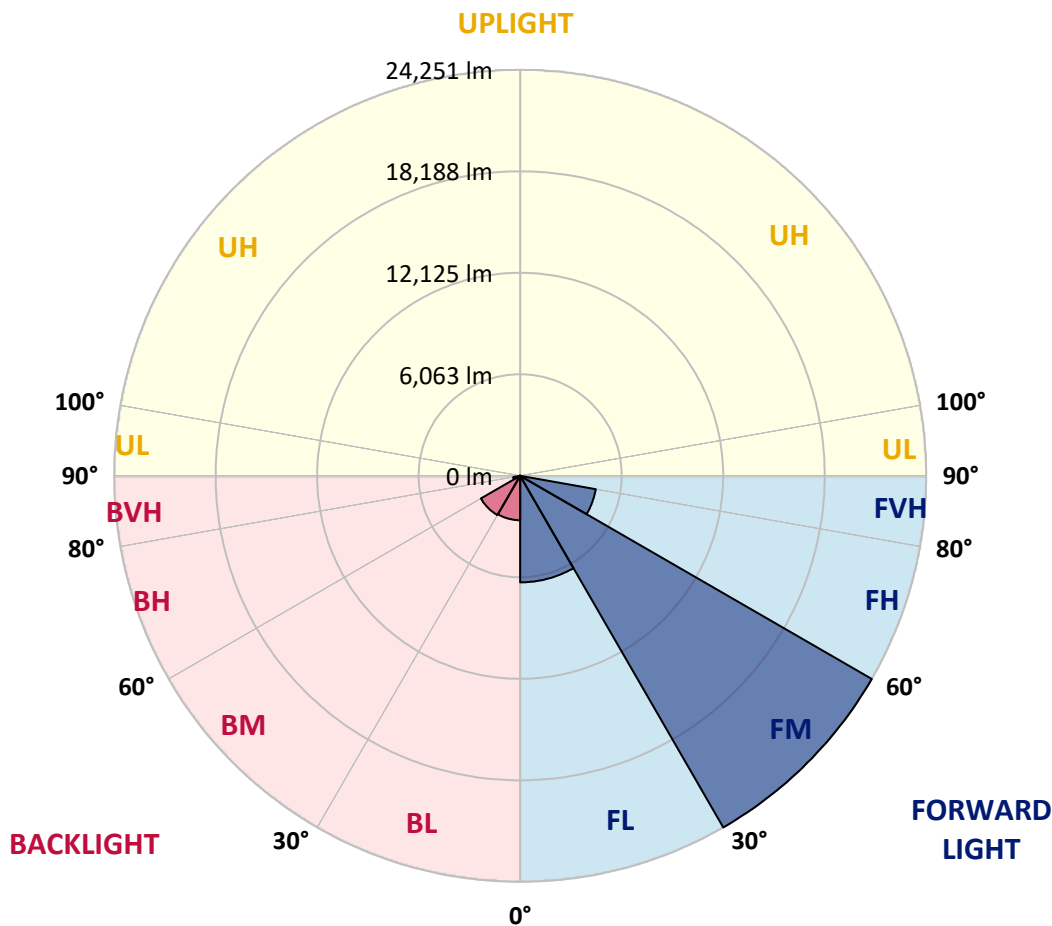
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6366.4	15.5			
FM (30°-60°)	24250.9	59.1			
FH (60°-80°)	4583.9	11.2			G2/5000
FVH (80°-90°)	16.0	0.0			G1/100
BL (0°-30°)	2650.7	6.5	B4/5000		
BM (30°-60°)	2710.3	6.6	B3/5000		
BH (60°-80°)	415.6	1.0	B1/500		G1/500
BVH (80°-90°)	19.2	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	18066.8	18066.8	18066.8	18066.8	18066.8	18066.8	18066.8	18066.8	18066.8	18066.8	18066.8
2.5°	19119.2	18920.9	18936.2	18867.5	18776.0	18844.7	18547.2	18615.9	18608.2	18204.1	17937.1
5°	18638.8	18852.3	18631.1	18814.2	18638.8	18829.4	18646.4	18509.1	18287.9	17990.5	17494.8
7.5°	17822.7	17616.8	17677.8	17906.6	17944.8	18371.8	18143.0	18318.4	18226.9	17639.7	16961.0
10°	16183.1	16137.3	16442.4	16747.4	17121.1	17578.7	17754.1	17655.0	17586.3	17365.2	16457.6
12.5°	14924.7	15054.4	15046.8	15550.1	16183.1	16442.4	16899.9	16884.7	17266.0	16854.2	15984.8
15°	13727.4	13796.0	14116.3	14429.0	15130.6	15870.4	16434.7	16511.0	16968.6	16678.8	15618.7
17.5°	12995.3	12896.1	13147.8	13521.5	14238.4	15206.9	15832.3	16015.3	16640.7	16579.6	15199.3
20°	12270.8	12270.8	12476.7	12919.0	13574.9	14665.4	15778.9	15725.5	16640.7	16465.2	14749.3
22.5°	12026.7	12148.7	12202.1	12537.7	13315.6	14253.6	15550.1	15649.2	16770.3	16411.9	14551.0
25°	12362.3	12202.1	12217.4	12484.3	13216.4	14055.3	15382.3	15603.5	17006.7	16678.8	14390.9
27.5°	12415.7	12575.8	12621.6	12804.6	13292.7	14116.3	15801.8	16251.7	17593.9	17304.1	14436.6
30°	12880.9	13041.0	13033.4	13346.1	13681.6	14612.1	16739.8	16831.3	18806.5	18089.7	14718.8
32.5°	13445.2	13613.0	13666.4	14032.4	14299.4	15519.6	17883.7	18120.2	19973.4	19325.1	15458.6
35°	14146.8	14085.8	14329.9	14695.9	15267.9	16846.6	19279.4	19675.9	21231.7	20926.7	16221.2
37.5°	15023.9	14947.6	15184.0	15778.9	16556.8	18417.6	20568.2	20827.5	22146.9	22413.8	17632.1
40°	15641.6	15672.1	16389.0	17189.8	18013.4	19912.4	21384.2	21635.9	22787.5	23801.8	18699.8
42.5°	16671.2	16861.8	17723.6	18699.8	19561.5	21033.4	22047.7	22291.8	23084.9	24915.2	20141.1
45°	18165.9	18082.0	19035.3	20125.9	21079.2	22200.3	22833.2	22749.3	23260.3	26021.0	21048.7
47.5°	20087.8	20103.0	20736.0	21666.4	22657.8	23214.6	23710.3	23412.8	23626.4	27187.9	22261.3
50°	21399.5	21513.9	22024.8	22978.1	23473.8	24328.0	24961.0	24778.0	24709.3	27889.5	23023.9
52.5°	21735.0	22078.2	22352.8	23542.5	24701.7	26051.5	26859.9	27248.9	26028.7	28125.9	23992.4
55°	19203.1	19508.2	20476.7	22108.7	25166.9	28781.8	29895.2	29902.8	27752.2	29178.3	24671.2
57.5°	15351.8	14734.1	15328.9	17060.1	21277.5	28667.4	31374.7	31016.3	28614.0	28560.6	24084.0
60°	10615.9	10463.3	10501.5	11187.8	14726.4	22802.7	27958.1	28423.3	26349.0	24755.1	19065.8
62.5°	8411.8	8282.2	8114.4	8038.2	9144.0	14207.9	19721.7	20377.6	18425.2	16053.4	11302.2
65°	6589.2	6512.9	6535.8	6840.8	6833.2	8061.0	10783.6	10516.7	8419.5	6223.1	3553.9
67.5°	4446.2	4560.5	4652.1	5574.8	6047.7	5613.0	5208.8	5056.3	2737.9	1151.6	785.5
70°	2501.4	2516.7	2615.8	3485.2	4591.1	4354.6	3592.0	3592.0	1365.1	419.4	450.0
72.5°	1365.1	1319.4	1227.8	1502.4	2043.9	2074.4	1601.5	1395.6	404.2	274.5	251.7
75°	663.5	655.9	564.3	465.2	442.3	366.1	282.2	259.3	183.0	175.4	152.5
77.5°	137.3	129.6	68.6	68.6	76.3	83.9	106.8	106.8	129.6	129.6	106.8
80°	0.0	0.0	7.6	30.5	53.4	76.3	91.5	91.5	106.8	106.8	83.9
82.5°	0.0	0.0	7.6	22.9	45.8	68.6	83.9	91.5	106.8	114.4	91.5
85°	0.0	0.0	0.0	15.3	38.1	53.4	45.8	45.8	38.1	30.5	15.3
87.5°	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	18066.8	18066.8	18066.8	18066.8	18066.8	18066.8	18066.8	18066.8	18066.8	18066.8	18066.8
2.5°	17799.9	17784.6	17433.8	17235.5	16877.1	16564.4	16312.7	16129.7	16129.7	16015.3	15908.5
5°	17296.5	17166.9	16419.5	15939.0	15260.3	14757.0	14413.8	14146.8	13727.4	13841.8	13391.8
7.5°	16671.2	16343.2	15351.8	14619.7	13681.6	12964.8	12232.6	11584.4	10959.0	10676.9	10829.4
10°	16000.0	15428.1	14093.5	12934.3	11767.4	10455.7	9601.6	8564.4	7923.8	7885.6	7717.8
12.5°	15290.8	14642.6	13018.1	11416.6	9883.7	8305.1	7001.0	6032.4	5597.7	5117.3	5208.8
15°	14757.0	13796.0	11820.8	9891.4	7855.1	6261.2	4949.5	4202.1	3790.3	3675.9	3637.8
17.5°	14177.3	13147.8	10600.6	8266.9	6162.1	4507.2	3561.5	3203.1	3042.9	3042.9	3020.0
20°	13574.9	12415.7	9388.0	6756.9	4621.6	3363.2	2852.2	2737.9	2730.2	2722.6	2722.6
22.5°	13178.3	11576.8	8289.8	5368.9	3485.2	2692.1	2478.6	2432.8	2463.3	2554.8	2554.8
25°	12758.9	10768.4	7077.2	4141.1	2699.7	2310.8	2188.8	2219.3	2295.5	2379.4	2348.9
27.5°	12331.8	10242.2	5933.3	3248.8	2211.6	2021.0	1975.2	2043.9	2127.7	2204.0	2181.1
30°	12232.6	9677.8	4850.3	2463.3	1899.0	1761.7	1792.2	1853.2	1937.1	1967.6	1998.1
32.5°	12385.2	9235.5	3973.3	2021.0	1654.9	1616.8	1616.8	1647.3	1700.7	1769.3	1746.4
35°	12819.9	8983.8	3142.0	1754.1	1517.6	1479.5	1471.9	1502.4	1532.9	1555.8	1532.9
37.5°	13483.4	8785.5	2570.1	1555.8	1426.1	1365.1	1349.9	1342.2	1372.7	1380.4	1395.6
40°	14329.9	8892.3	2181.1	1433.8	1334.6	1266.0	1220.2	1220.2	1220.2	1243.1	1250.7
42.5°	15245.0	9037.2	1883.7	1365.1	1250.7	1166.8	1121.1	1105.8	1121.1	1151.6	1143.9
45°	16206.0	9319.4	1693.0	1258.3	1174.5	1067.7	1006.7	991.4	1029.6	1090.6	1082.9
47.5°	17105.9	9723.6	1548.1	1189.7	1098.2	999.0	922.8	907.5	976.2	1060.1	1067.7
50°	18005.8	10425.2	1494.8	1136.3	1044.8	930.4	861.8	846.5	922.8	1029.6	1052.4
52.5°	19042.9	11180.2	1456.6	1067.7	983.8	877.0	800.8	785.5	869.4	1006.7	1014.3
55°	19721.7	11820.8	1426.1	945.7	869.4	793.1	732.1	724.5	816.0	938.0	968.5
57.5°	18928.6	10928.5	1319.4	823.6	739.8	701.6	648.2	648.2	724.5	838.9	861.8
60°	14352.8	7191.6	938.0	663.5	625.4	602.5	579.6	579.6	640.6	724.5	732.1
62.5°	8404.2	3874.2	602.5	533.8	533.8	511.0	472.8	472.8	533.8	579.6	587.2
65°	2493.8	1243.1	488.1	457.6	450.0	411.8	373.7	366.1	411.8	434.7	427.1
67.5°	716.9	572.0	404.2	381.3	373.7	312.7	289.8	282.2	289.8	274.5	266.9
70°	427.1	388.9	312.7	320.3	282.2	228.8	205.9	198.3	183.0	160.2	144.9
72.5°	236.4	236.4	228.8	244.0	198.3	152.5	129.6	106.8	83.9	68.6	61.0
75°	144.9	152.5	160.2	167.8	129.6	99.1	83.9	53.4	30.5	15.3	15.3
77.5°	99.1	106.8	114.4	122.0	106.8	91.5	68.6	38.1	7.6	0.0	0.0
80°	76.3	83.9	99.1	106.8	114.4	122.0	91.5	38.1	7.6	0.0	0.0
82.5°	83.9	91.5	114.4	106.8	106.8	106.8	83.9	38.1	7.6	0.0	0.0
85°	15.3	22.9	38.1	38.1	53.4	68.6	53.4	15.3	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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)