

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: P532133

Luminaire Tested: **GALN-SA7C-727-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532133
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-SA7C-727-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA 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: 23949 lumens
Efficiency: N/A
Efficacy: 63.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

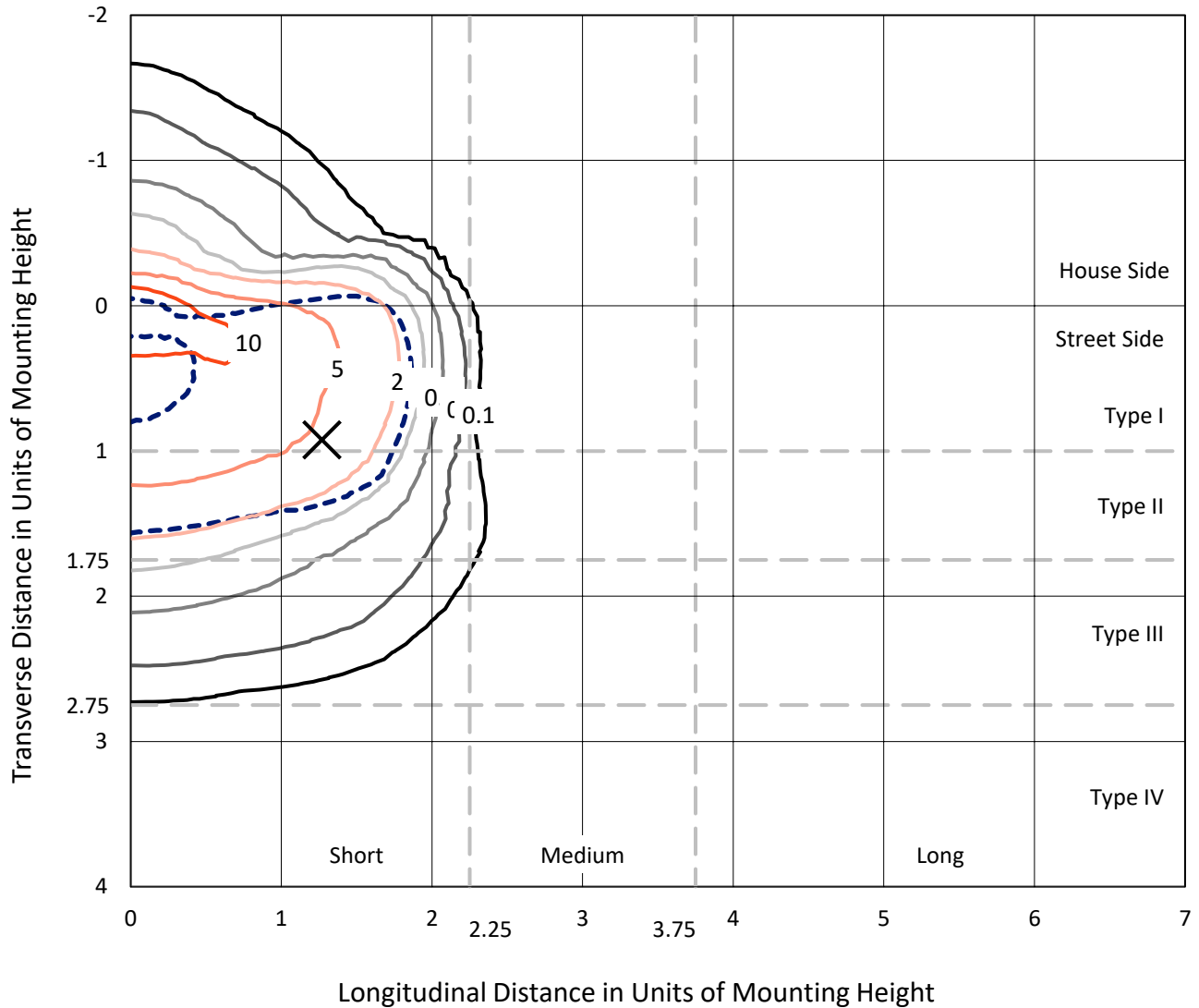
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

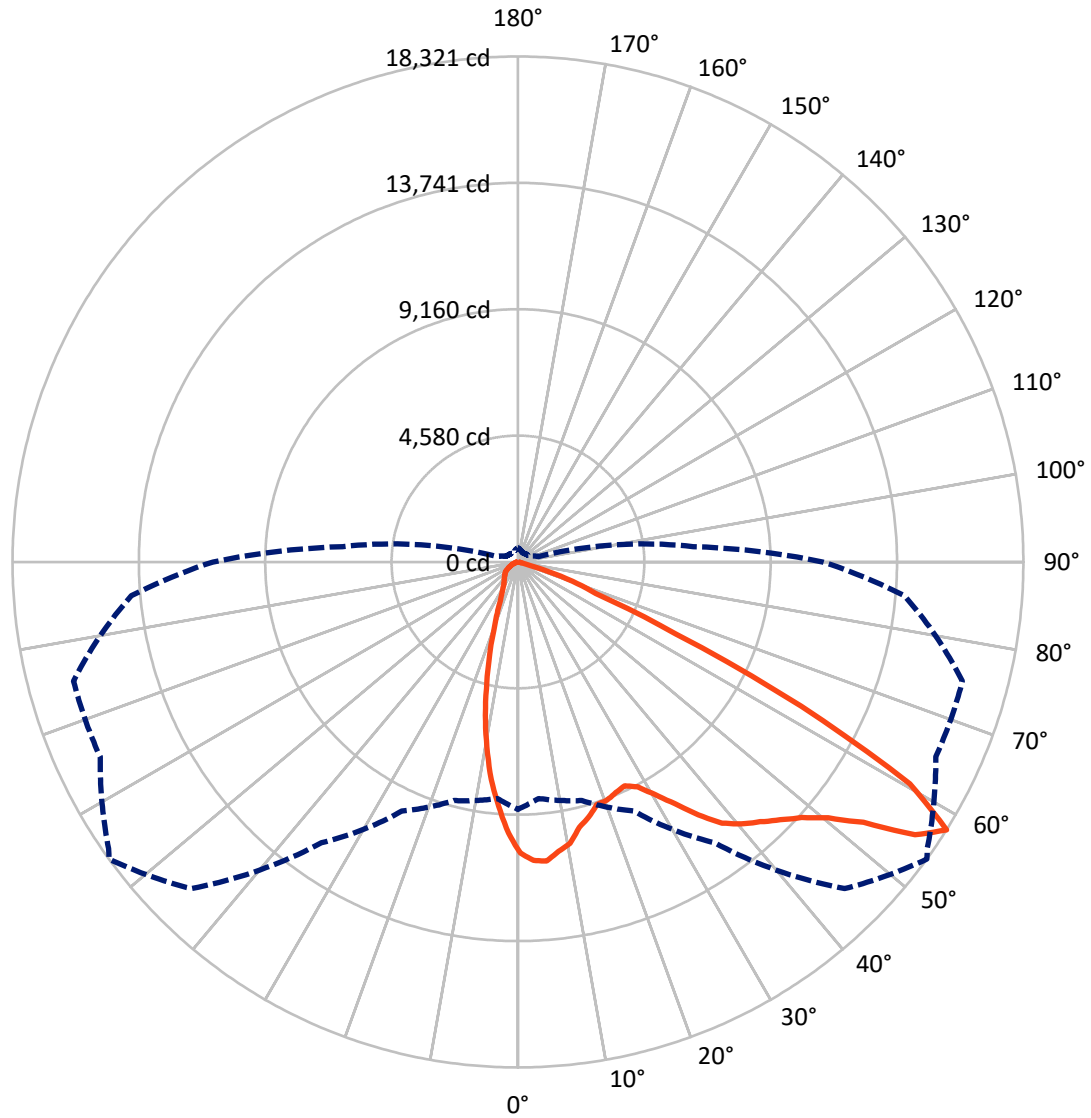
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 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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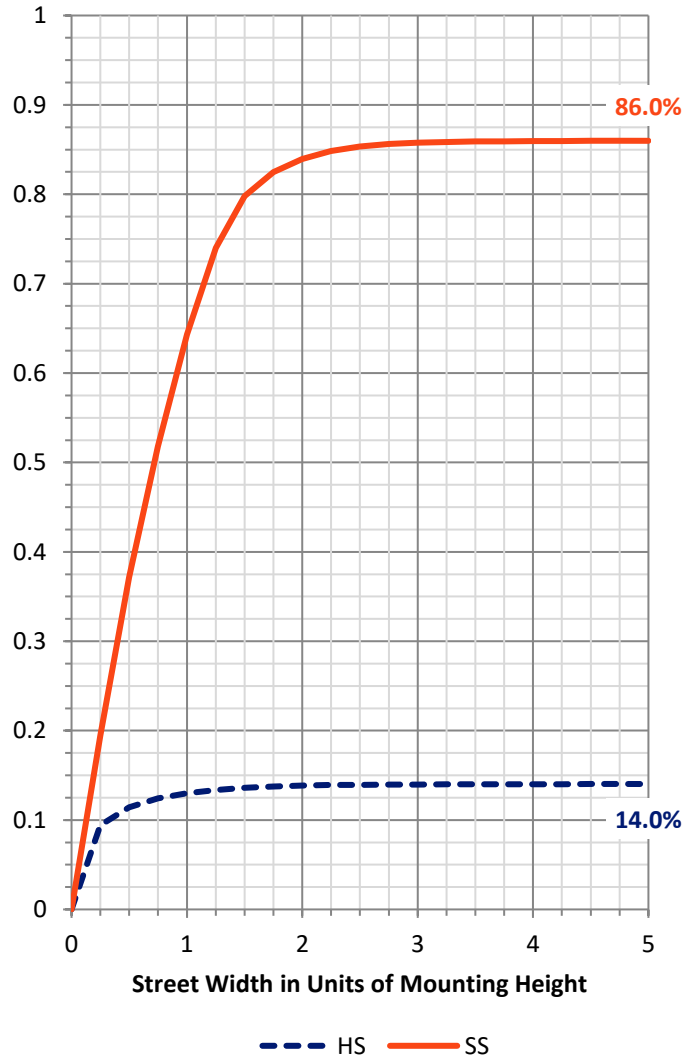
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3384.4	0.0	3384.4
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	20564.6	0.0	20564.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	23949.0	0.0	23949.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	882.8	3.7
10°-20°	1884.8	7.9
20°-30°	2497.8	10.4
30°-40°	3630.0	15.2
40°-50°	5382.7	22.5
50°-60°	6730.9	28.1
60°-70°	2655.0	11.1
70°-80°	264.4	1.1
80°-90°	20.6	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°	23949.0	100.0
0°-180°	23949.0	100.0

Coefficient of Utilization



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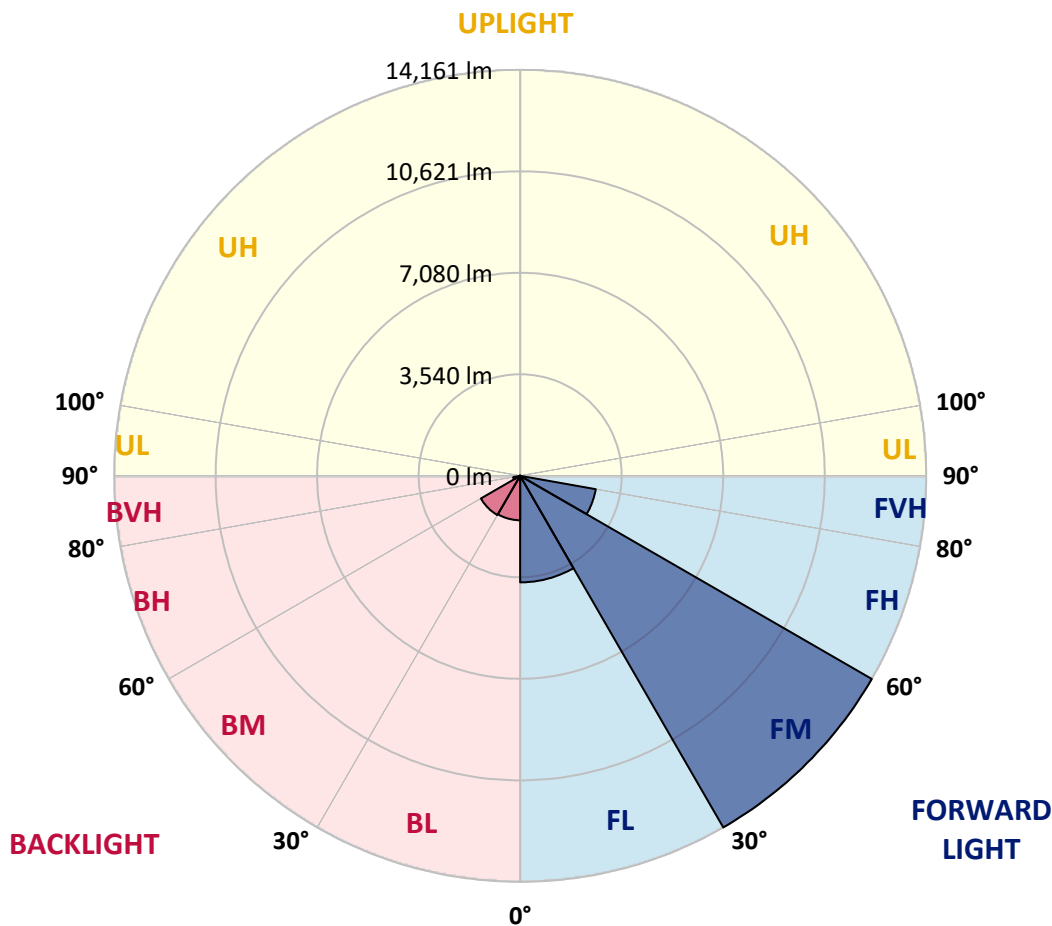
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3717.6	15.5			
FM (30°-60°)	14161.0	59.1			
FH (60°-80°)	2676.7	11.2			G2/5000
FVH (80°-90°)	9.3	0.0			G0/10
BL (0°-30°)	1547.9	6.5	B3/2500		
BM (30°-60°)	1582.6	6.6	B2/2500		
BH (60°-80°)	242.7	1.0	B1/500		G1/500
BVH (80°-90°)	11.2	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10549.9	10549.9	10549.9	10549.9	10549.9	10549.9	10549.9	10549.9	10549.9	10549.9	10549.9
2.5°	11164.4	11048.6	11057.5	11017.5	10964.0	11004.1	10830.4	10870.5	10866.0	10630.0	10474.2
5°	10883.9	11008.5	10879.4	10986.3	10883.9	10995.2	10888.3	10808.1	10679.0	10505.3	10215.9
7.5°	10407.4	10287.1	10322.7	10456.3	10478.6	10728.0	10594.4	10696.8	10643.4	10300.5	9904.1
10°	9449.9	9423.2	9601.3	9779.4	9997.6	10264.8	10367.3	10309.4	10269.3	10140.2	9610.2
12.5°	8715.1	8790.8	8786.4	9080.3	9449.9	9601.3	9868.5	9859.6	10082.3	9841.8	9334.1
15°	8015.9	8056.0	8243.0	8425.6	8835.3	9267.3	9596.9	9641.4	9908.6	9739.4	9120.3
17.5°	7588.4	7530.5	7677.5	7895.7	8314.3	8879.9	9245.0	9351.9	9717.1	9681.5	8875.4
20°	7165.4	7165.4	7285.6	7543.9	7926.9	8563.7	9213.9	9182.7	9717.1	9614.7	8612.7
22.5°	7022.8	7094.1	7125.3	7321.2	7775.5	8323.2	9080.3	9138.2	9792.8	9583.5	8496.9
25°	7218.8	7125.3	7134.2	7290.0	7717.6	8207.4	8982.3	9111.4	9930.8	9739.4	8403.4
27.5°	7250.0	7343.5	7370.2	7477.1	7762.1	8243.0	9227.2	9490.0	10273.8	10104.5	8430.1
30°	7521.6	7615.1	7610.7	7793.3	7989.2	8532.5	9775.0	9828.4	10981.8	10563.2	8594.9
32.5°	7851.2	7949.1	7980.3	8194.1	8349.9	9062.5	10443.0	10581.0	11663.2	11284.7	9026.8
35°	8260.9	8225.2	8367.7	8581.5	8915.5	9837.3	11257.9	11489.5	12398.0	12219.8	9472.2
37.5°	8773.0	8728.5	8866.5	9213.9	9668.1	10754.7	12010.5	12161.9	12932.4	13088.2	10296.0
40°	9133.7	9151.5	9570.1	10037.7	10518.7	11627.6	12487.0	12634.0	13306.4	13898.7	10919.5
42.5°	9734.9	9846.2	10349.5	10919.5	11422.7	12282.2	12874.5	13017.0	13480.1	14548.9	11761.2
45°	10607.7	10558.8	11115.4	11752.2	12308.9	12963.5	13333.2	13284.2	13582.6	15194.6	12291.1
47.5°	11730.0	11738.9	12108.5	12651.8	13230.7	13555.8	13845.3	13671.6	13796.3	15876.0	12999.2
50°	12495.9	12562.7	12861.1	13417.8	13707.2	14206.0	14575.6	14468.8	14428.7	16285.7	13444.5
52.5°	12691.9	12892.3	13052.6	13747.3	14424.2	15212.5	15684.5	15911.6	15199.1	16423.8	14010.1
55°	11213.4	11391.5	11957.1	12910.1	14695.9	16806.7	17456.9	17461.4	16205.5	17038.3	14406.4
57.5°	8964.5	8603.8	8951.1	9962.0	12424.7	16739.9	18320.9	18111.6	16708.8	16677.6	14063.5
60°	6199.0	6109.9	6132.2	6533.0	8599.3	13315.4	16325.8	16597.4	15386.1	14455.4	11133.2
62.5°	4912.0	4836.3	4738.3	4693.8	5339.5	8296.5	11516.2	11899.2	10759.2	9374.2	6599.8
65°	3847.6	3803.1	3816.5	3994.6	3990.2	4707.1	6297.0	6141.1	4916.4	3633.9	2075.2
67.5°	2596.3	2663.1	2716.5	3255.4	3531.5	3277.6	3041.6	2952.5	1598.7	672.4	458.7
70°	1460.7	1469.6	1527.5	2035.2	2680.9	2542.8	2097.5	2097.5	797.1	244.9	262.7
72.5°	797.1	770.4	717.0	877.3	1193.5	1211.3	935.2	815.0	236.0	160.3	147.0
75°	387.4	383.0	329.5	271.7	258.3	213.8	164.8	151.4	106.9	102.4	89.1
77.5°	80.2	75.7	40.1	40.1	44.5	49.0	62.3	62.3	75.7	75.7	62.3
80°	0.0	0.0	4.5	17.8	31.2	44.5	53.4	53.4	62.3	62.3	49.0
82.5°	0.0	0.0	4.5	13.4	26.7	40.1	49.0	53.4	62.3	66.8	53.4
85°	0.0	0.0	0.0	8.9	22.3	31.2	26.7	26.7	22.3	17.8	8.9
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°	10549.9	10549.9	10549.9	10549.9	10549.9	10549.9	10549.9	10549.9	10549.9	10549.9	10549.9
2.5°	10394.0	10385.1	10180.2	10064.4	9855.1	9672.6	9525.6	9418.7	9418.7	9351.9	9289.6
5°	10100.1	10024.4	9587.9	9307.4	8911.0	8617.1	8416.7	8260.9	8015.9	8082.7	7820.0
7.5°	9734.9	9543.4	8964.5	8537.0	7989.2	7570.6	7143.1	6764.6	6399.4	6234.6	6323.7
10°	9343.0	9009.0	8229.7	7552.8	6871.4	6105.5	5606.7	5001.1	4627.0	4604.7	4506.7
12.5°	8928.9	8550.3	7601.8	6666.6	5771.5	4849.6	4088.1	3522.6	3268.7	2988.2	3041.6
15°	8617.1	8056.0	6902.6	5775.9	4586.9	3656.2	2890.2	2453.8	2213.3	2146.5	2124.2
17.5°	8278.7	7677.5	6190.1	4827.4	3598.3	2631.9	2079.7	1870.4	1776.9	1776.9	1763.5
20°	7926.9	7250.0	5482.0	3945.6	2698.7	1963.9	1665.5	1598.7	1594.3	1589.8	1589.8
22.5°	7695.3	6760.1	4840.7	3135.1	2035.2	1572.0	1447.3	1420.6	1438.4	1491.9	1491.9
25°	7450.4	6288.1	4132.7	2418.1	1576.5	1349.3	1278.1	1295.9	1340.4	1389.4	1371.6
27.5°	7201.0	5980.8	3464.7	1897.1	1291.5	1180.1	1153.4	1193.5	1242.5	1287.0	1273.6
30°	7143.1	5651.2	2832.3	1438.4	1108.9	1028.7	1046.5	1082.2	1131.1	1149.0	1166.8
32.5°	7232.2	5392.9	2320.2	1180.1	966.4	944.1	944.1	961.9	993.1	1033.2	1019.8
35°	7486.0	5246.0	1834.8	1024.3	886.2	863.9	859.5	877.3	895.1	908.5	895.1
37.5°	7873.4	5130.2	1500.8	908.5	832.8	797.1	788.2	783.8	801.6	806.0	815.0
40°	8367.7	5192.5	1273.6	837.2	779.3	739.2	712.5	712.5	712.5	725.9	730.3
42.5°	8902.1	5277.2	1100.0	797.1	730.3	681.4	654.6	645.7	654.6	672.4	668.0
45°	9463.3	5441.9	988.6	734.8	685.8	623.5	587.8	578.9	601.2	636.8	632.4
47.5°	9988.7	5678.0	904.0	694.7	641.3	583.4	538.8	529.9	570.0	619.0	623.5
50°	10514.2	6087.7	872.8	663.5	610.1	543.3	503.2	494.3	538.8	601.2	614.6
52.5°	11119.9	6528.5	850.6	623.5	574.5	512.1	467.6	458.7	507.7	587.8	592.3
55°	11516.2	6902.6	832.8	552.2	507.7	463.1	427.5	423.1	476.5	547.8	565.6
57.5°	11053.1	6381.6	770.4	481.0	432.0	409.7	378.5	378.5	423.1	489.9	503.2
60°	8381.1	4199.5	547.8	387.4	365.2	351.8	338.5	338.5	374.1	423.1	427.5
62.5°	4907.5	2262.3	351.8	311.7	311.7	298.4	276.1	276.1	311.7	338.5	342.9
65°	1456.2	725.9	285.0	267.2	262.7	240.5	218.2	213.8	240.5	253.8	249.4
67.5°	418.6	334.0	236.0	222.7	218.2	182.6	169.2	164.8	169.2	160.3	155.9
70°	249.4	227.1	182.6	187.0	164.8	133.6	120.2	115.8	106.9	93.5	84.6
72.5°	138.1	138.1	133.6	142.5	115.8	89.1	75.7	62.3	49.0	40.1	35.6
75°	84.6	89.1	93.5	98.0	75.7	57.9	49.0	31.2	17.8	8.9	8.9
77.5°	57.9	62.3	66.8	71.3	62.3	53.4	40.1	22.3	4.5	0.0	0.0
80°	44.5	49.0	57.9	62.3	66.8	71.3	53.4	22.3	4.5	0.0	0.0
82.5°	49.0	53.4	66.8	62.3	62.3	62.3	49.0	22.3	4.5	0.0	0.0
85°	8.9	13.4	22.3	22.3	31.2	40.1	31.2	8.9	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)