

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: P529325

Luminaire Tested: **GALN-SA4C-727-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529325
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-SA4C-727-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 13602 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

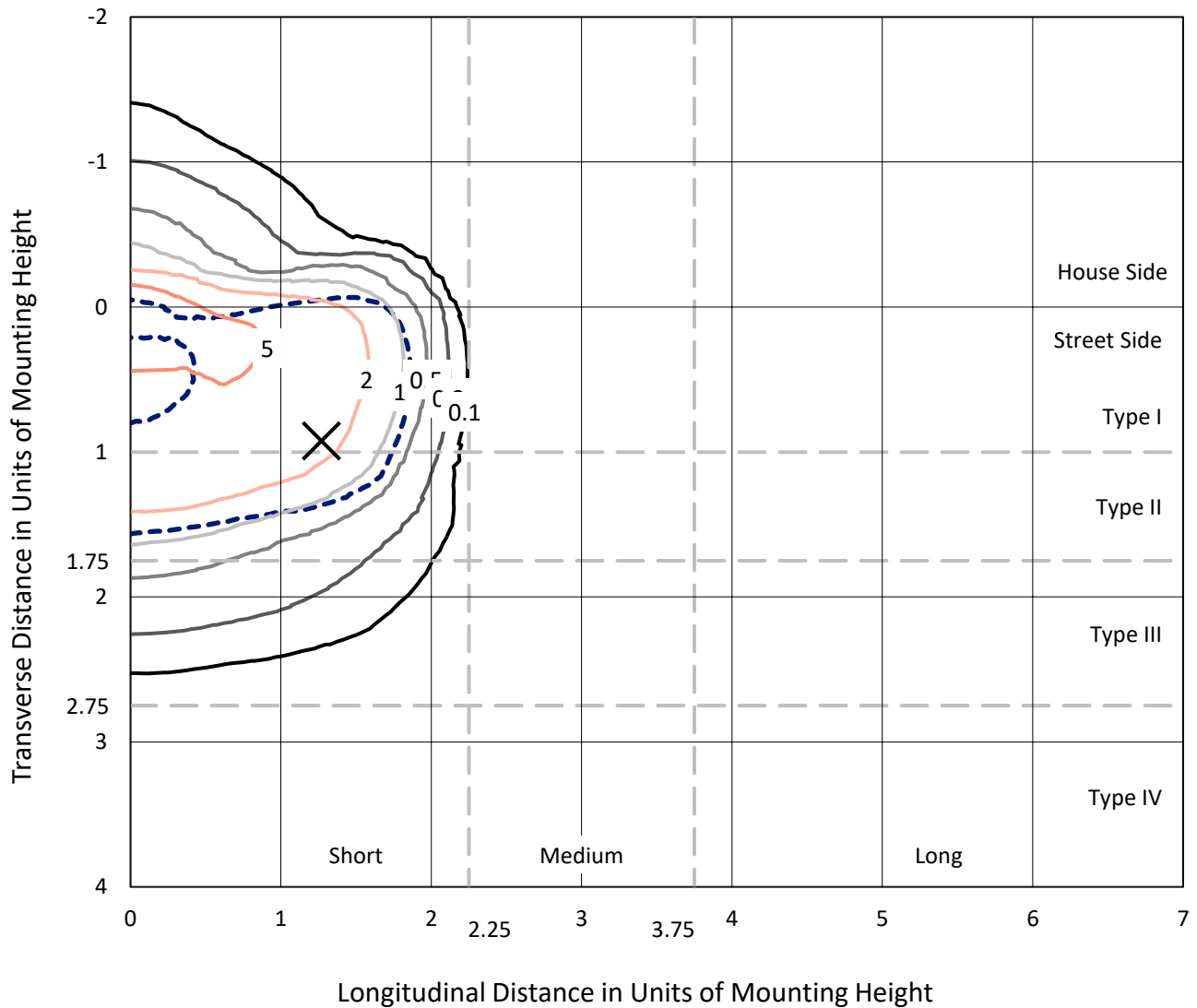
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

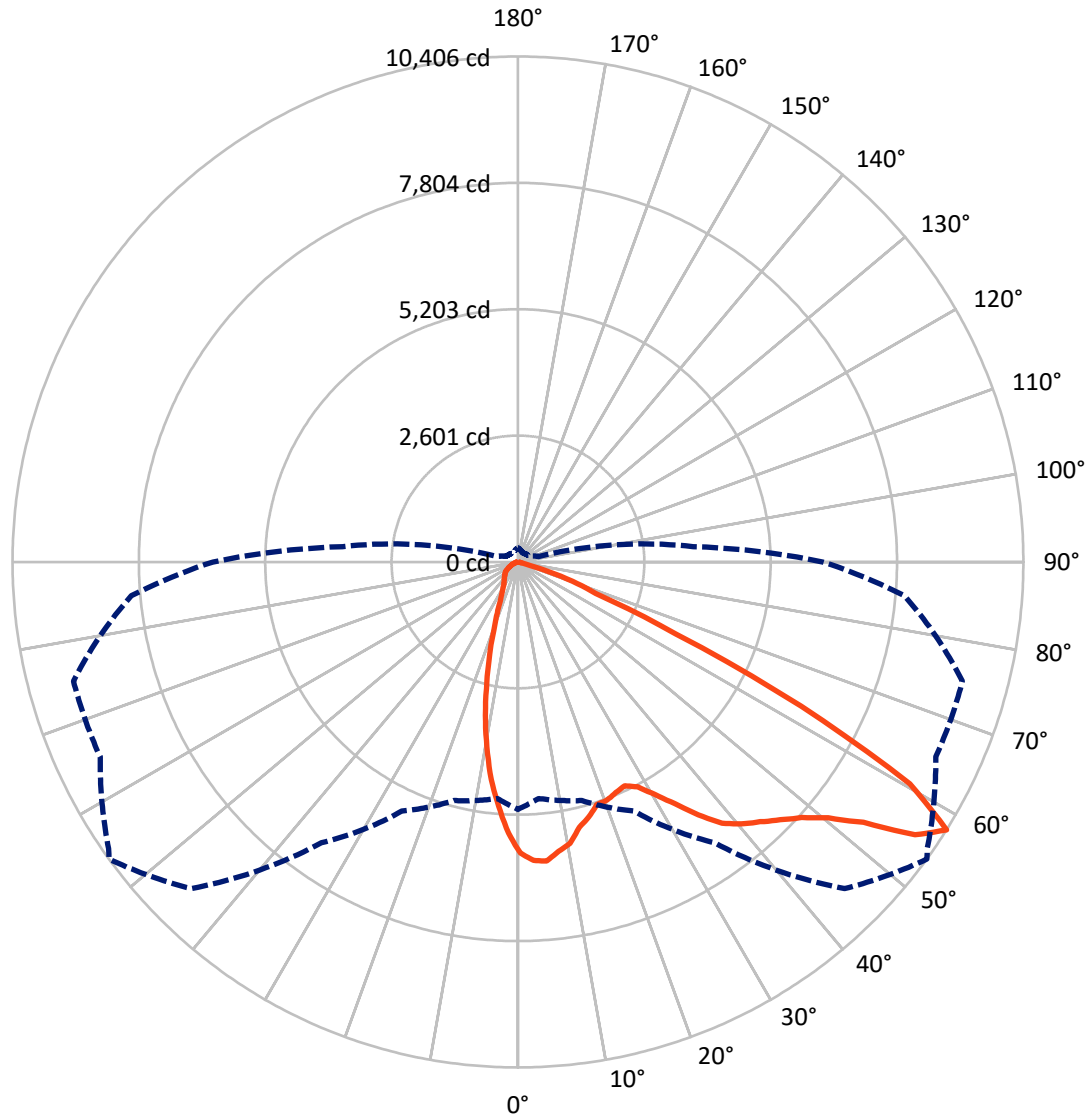
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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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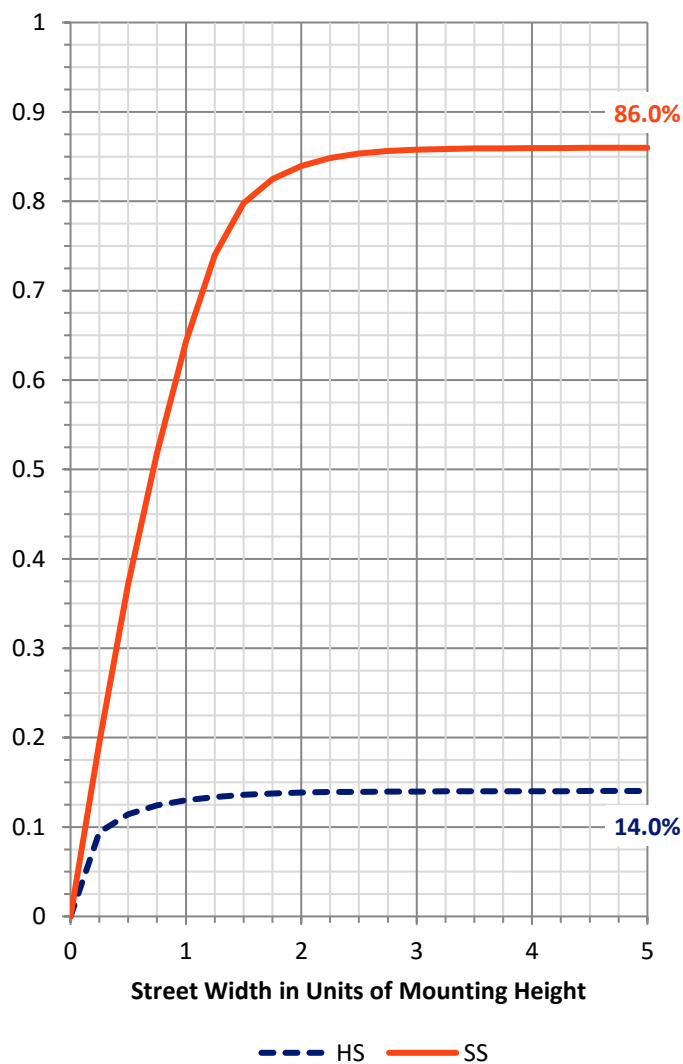
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1922.2	0.0	1922.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	11679.8	0.0	11679.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	13602.0	0.0	13602.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.4	3.7
10°-20°	1070.5	7.9
20°-30°	1418.6	10.4
30°-40°	2061.7	15.2
40°-50°	3057.2	22.5
50°-60°	3822.9	28.1
60°-70°	1507.9	11.1
70°-80°	150.1	1.1
80°-90°	11.7	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°	13602.0	100.0
0°-180°	13602.0	100.0

Coefficient of Utilization

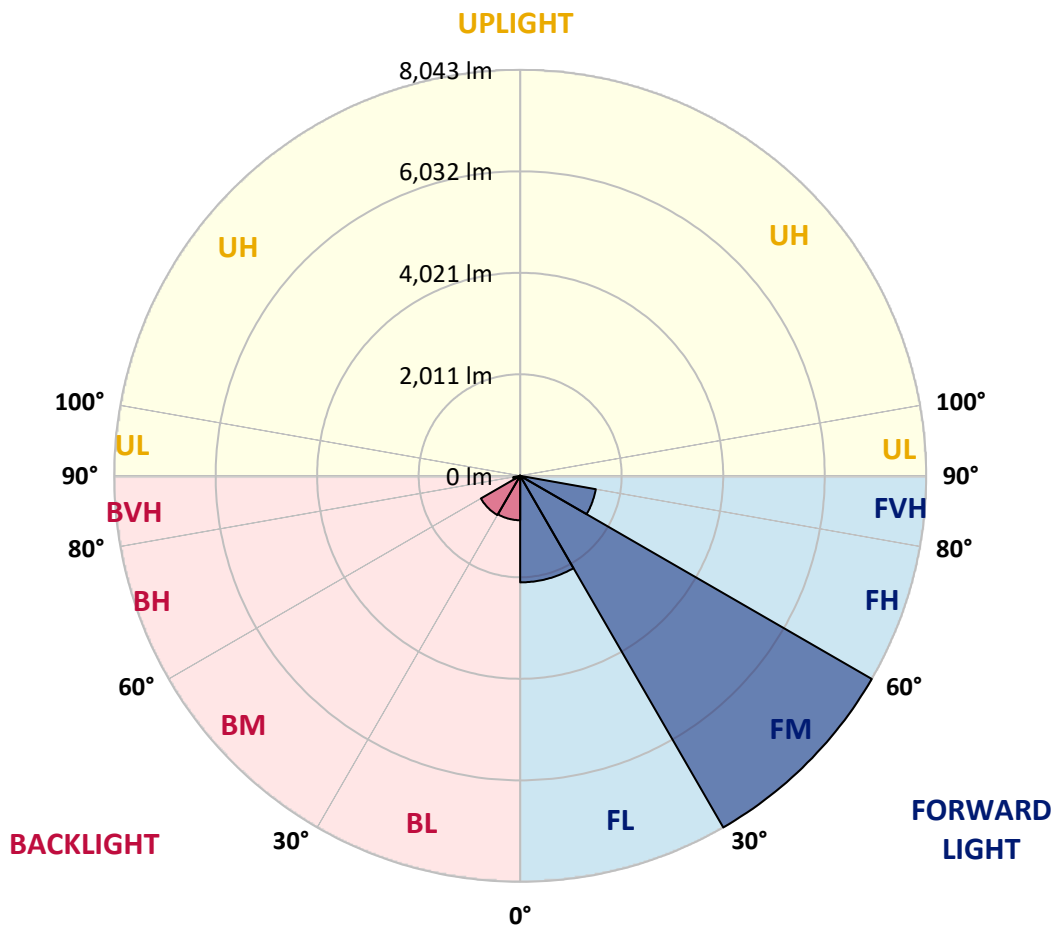


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2111.4	15.5			
FM (30°-60°)	8042.8	59.1			
FH (60°-80°)	1520.2	11.2			G1/1800
FVH (80°-90°)	5.3	0.0			G0/10
BL (0°-30°)	879.1	6.5	B2/1000		
BM (30°-60°)	898.9	6.6	B1/1000		
BH (60°-80°)	137.8	1.0	B1/500		G1/500
BVH (80°-90°)	6.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5991.9	5991.9	5991.9	5991.9	5991.9	5991.9	5991.9	5991.9	5991.9	5991.9	5991.9
2.5°	6340.9	6275.1	6280.2	6257.4	6227.1	6249.9	6151.2	6174.0	6171.4	6037.4	5948.9
5°	6181.6	6252.4	6179.0	6239.7	6181.6	6244.8	6184.1	6138.6	6065.2	5966.6	5802.2
7.5°	5910.9	5842.6	5862.9	5938.7	5951.4	6093.0	6017.2	6075.3	6045.0	5850.2	5625.1
10°	5367.1	5352.0	5453.1	5554.3	5678.2	5830.0	5888.2	5855.3	5832.5	5759.2	5458.2
12.5°	4949.8	4992.8	4990.3	5157.2	5367.1	5453.1	5604.9	5599.8	5726.3	5589.7	5301.4
15°	4552.7	4575.5	4681.7	4785.4	5018.1	5263.4	5450.6	5475.9	5627.6	5531.5	5180.0
17.5°	4309.9	4277.0	4360.5	4484.4	4722.2	5043.4	5250.8	5311.5	5518.9	5498.7	5040.9
20°	4069.6	4069.6	4137.9	4284.6	4502.1	4863.8	5233.1	5215.4	5518.9	5460.7	4891.6
22.5°	3988.7	4029.1	4046.8	4158.1	4416.1	4727.2	5157.2	5190.1	5561.9	5443.0	4825.9
25°	4100.0	4046.8	4051.9	4140.4	4383.2	4661.5	5101.6	5174.9	5640.3	5531.5	4772.8
27.5°	4117.7	4170.8	4186.0	4246.7	4408.5	4681.7	5240.7	5389.9	5835.0	5738.9	4787.9
30°	4272.0	4325.1	4322.5	4426.2	4537.5	4846.1	5551.8	5582.1	6237.2	5999.5	4881.5
32.5°	4459.1	4514.8	4532.5	4653.9	4742.4	5147.1	5931.2	6009.6	6624.2	6409.2	5126.9
35°	4691.8	4671.6	4752.5	4873.9	5063.6	5587.2	6394.0	6525.5	7041.5	6940.3	5379.8
37.5°	4982.7	4957.4	5035.8	5233.1	5491.1	6108.2	6821.5	6907.5	7345.0	7433.6	5847.7
40°	5187.6	5197.7	5435.4	5701.0	5974.2	6603.9	7092.1	7175.6	7557.5	7893.9	6201.8
42.5°	5529.0	5592.2	5878.0	6201.8	6487.6	6975.8	7312.1	7393.1	7656.1	8263.2	6679.8
45°	6024.7	5996.9	6313.1	6674.8	6990.9	7362.7	7572.7	7544.8	7714.3	8629.9	6980.8
47.5°	6662.1	6667.2	6877.1	7185.7	7514.5	7699.1	7863.5	7764.9	7835.7	9016.9	7383.0
50°	7097.2	7135.1	7304.6	7620.7	7785.1	8068.4	8278.3	8217.6	8194.9	9249.6	7635.9
52.5°	7208.4	7322.3	7413.3	7807.9	8192.3	8640.0	8908.1	9037.1	8632.4	9328.0	7957.1
55°	6368.7	6469.9	6791.1	7332.4	8346.6	9545.5	9914.8	9917.3	9204.0	9677.0	8182.2
57.5°	5091.4	4886.6	5083.9	5658.0	7056.7	9507.6	10405.5	10286.6	9489.9	9472.2	7987.5
60°	3520.8	3470.2	3482.8	3710.5	4884.0	7562.5	9272.3	9426.6	8738.7	8210.0	6323.2
62.5°	2789.8	2746.8	2691.2	2665.9	3032.6	4712.0	6540.7	6758.2	6110.7	5324.1	3748.4
65°	2185.3	2160.0	2167.6	2268.8	2266.2	2673.4	3576.4	3487.9	2792.3	2063.9	1178.6
67.5°	1474.6	1512.5	1542.9	1848.9	2005.7	1861.6	1727.5	1676.9	908.0	381.9	260.5
70°	829.6	834.7	867.5	1155.9	1522.6	1444.2	1191.3	1191.3	452.7	139.1	149.2
72.5°	452.7	437.6	407.2	498.3	677.8	688.0	531.1	462.9	134.1	91.1	83.5
75°	220.0	217.5	187.2	154.3	146.7	121.4	93.6	86.0	60.7	58.2	50.6
77.5°	45.5	43.0	22.8	22.8	25.3	27.8	35.4	35.4	43.0	43.0	35.4
80°	0.0	0.0	2.5	10.1	17.7	25.3	30.4	30.4	35.4	35.4	27.8
82.5°	0.0	0.0	2.5	7.6	15.2	22.8	27.8	30.4	35.4	37.9	30.4
85°	0.0	0.0	0.0	5.1	12.6	17.7	15.2	15.2	12.6	10.1	5.1
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°	5991.9	5991.9	5991.9	5991.9	5991.9	5991.9	5991.9	5991.9	5991.9	5991.9	5991.9
2.5°	5903.3	5898.3	5781.9	5716.2	5597.3	5493.6	5410.1	5349.4	5349.4	5311.5	5276.1
5°	5736.4	5693.4	5445.5	5286.2	5061.1	4894.2	4780.3	4691.8	4552.7	4590.6	4441.4
7.5°	5529.0	5420.2	5091.4	4848.6	4537.5	4299.8	4057.0	3842.0	3634.6	3541.0	3591.6
10°	5306.4	5116.7	4674.1	4289.7	3902.7	3467.6	3184.4	2840.4	2627.9	2615.3	2559.6
12.5°	5071.2	4856.2	4317.5	3786.3	3277.9	2754.4	2321.9	2000.7	1856.5	1697.1	1727.5
15°	4894.2	4575.5	3920.4	3280.5	2605.2	2076.5	1641.5	1393.6	1257.1	1219.1	1206.5
17.5°	4701.9	4360.5	3515.7	2741.7	2043.7	1494.8	1181.2	1062.3	1009.2	1009.2	1001.6
20°	4502.1	4117.7	3113.5	2240.9	1532.7	1115.4	946.0	908.0	905.5	903.0	903.0
22.5°	4370.6	3839.4	2749.3	1780.6	1155.9	892.8	822.0	806.8	817.0	847.3	847.3
25°	4231.5	3571.3	2347.2	1373.4	895.4	766.4	725.9	736.0	761.3	789.1	779.0
27.5°	4089.8	3396.8	1967.8	1077.5	733.5	670.3	655.1	677.8	705.7	731.0	723.4
30°	4057.0	3209.7	1608.6	817.0	629.8	584.3	594.4	614.6	642.4	652.6	662.7
32.5°	4107.6	3063.0	1317.8	670.3	548.9	536.2	536.2	546.3	564.0	586.8	579.2
35°	4251.7	2979.5	1042.1	581.7	503.3	490.7	488.2	498.3	508.4	516.0	508.4
37.5°	4471.8	2913.7	852.4	516.0	473.0	452.7	447.7	445.2	455.3	457.8	462.9
40°	4752.5	2949.1	723.4	475.5	442.6	419.9	404.7	404.7	404.7	412.3	414.8
42.5°	5056.0	2997.2	624.7	452.7	414.8	387.0	371.8	366.7	371.8	381.9	379.4
45°	5374.7	3090.8	561.5	417.3	389.5	354.1	333.9	328.8	341.5	361.7	359.2
47.5°	5673.2	3224.8	513.4	394.6	364.2	331.3	306.0	301.0	323.7	351.6	354.1
50°	5971.6	3457.5	495.7	376.9	346.5	308.6	285.8	280.8	306.0	341.5	349.0
52.5°	6315.6	3707.9	483.1	354.1	326.3	290.9	265.6	260.5	288.3	333.9	336.4
55°	6540.7	3920.4	473.0	313.6	288.3	263.0	242.8	240.3	270.6	311.1	321.2
57.5°	6277.7	3624.5	437.6	273.2	245.3	232.7	215.0	215.0	240.3	278.2	285.8
60°	4760.1	2385.1	311.1	220.0	207.4	199.8	192.2	192.2	212.5	240.3	242.8
62.5°	2787.3	1284.9	199.8	177.0	177.0	169.5	156.8	156.8	177.0	192.2	194.8
65°	827.1	412.3	161.9	151.8	149.2	136.6	123.9	121.4	136.6	144.2	141.6
67.5°	237.8	189.7	134.1	126.5	123.9	103.7	96.1	93.6	96.1	91.1	88.5
70°	141.6	129.0	103.7	106.2	93.6	75.9	68.3	65.8	60.7	53.1	48.1
72.5°	78.4	78.4	75.9	80.9	65.8	50.6	43.0	35.4	27.8	22.8	20.2
75°	48.1	50.6	53.1	55.6	43.0	32.9	27.8	17.7	10.1	5.1	5.1
77.5°	32.9	35.4	37.9	40.5	35.4	30.4	22.8	12.6	2.5	0.0	0.0
80°	25.3	27.8	32.9	35.4	37.9	40.5	30.4	12.6	2.5	0.0	0.0
82.5°	27.8	30.4	37.9	35.4	35.4	35.4	27.8	12.6	2.5	0.0	0.0
85°	5.1	7.6	12.6	12.6	17.7	22.8	17.7	5.1	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)