

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: P529585

Luminaire Tested: **GALN-SA4D-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529585
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-SA4D-730-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 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: 16299 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

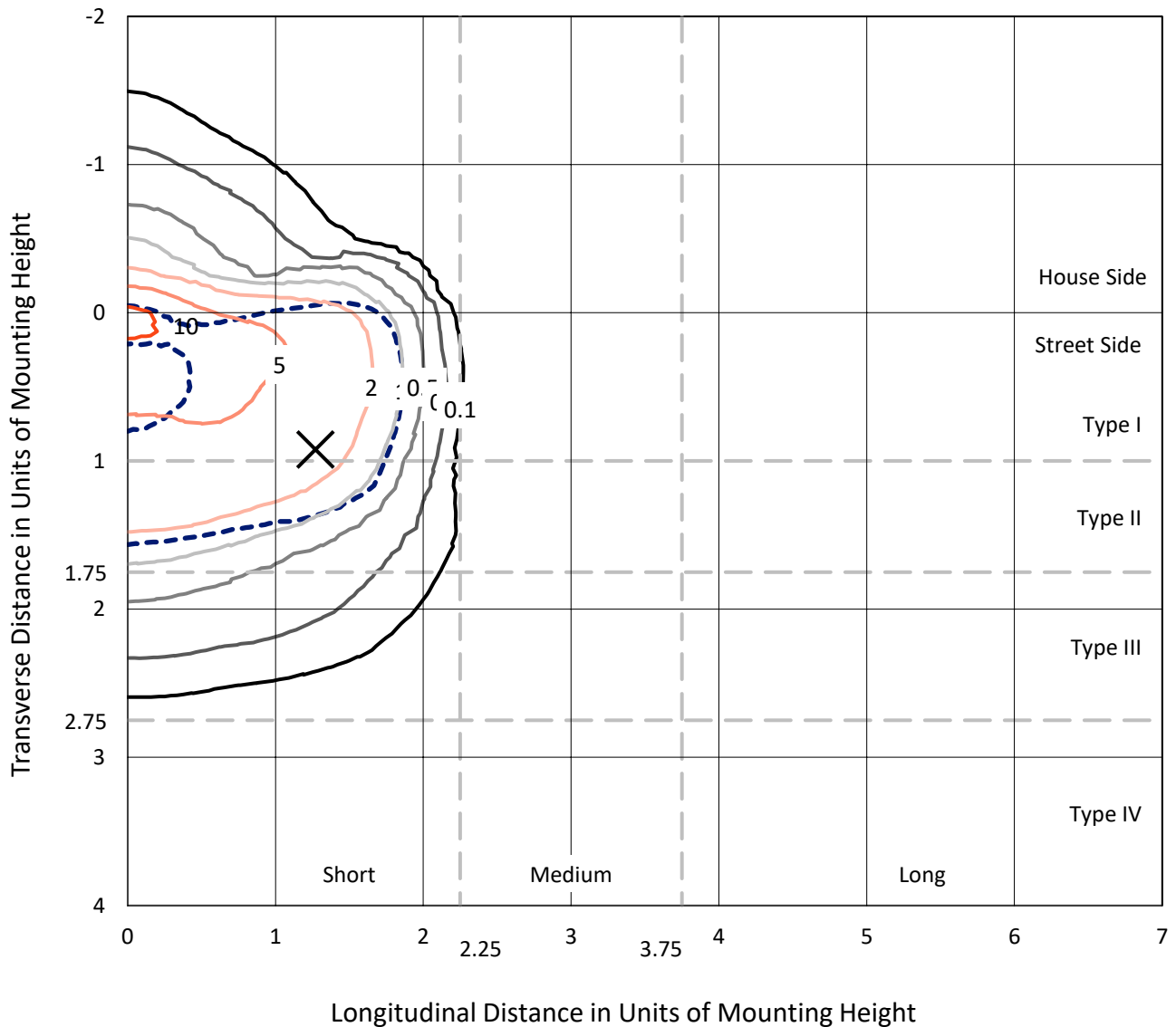
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

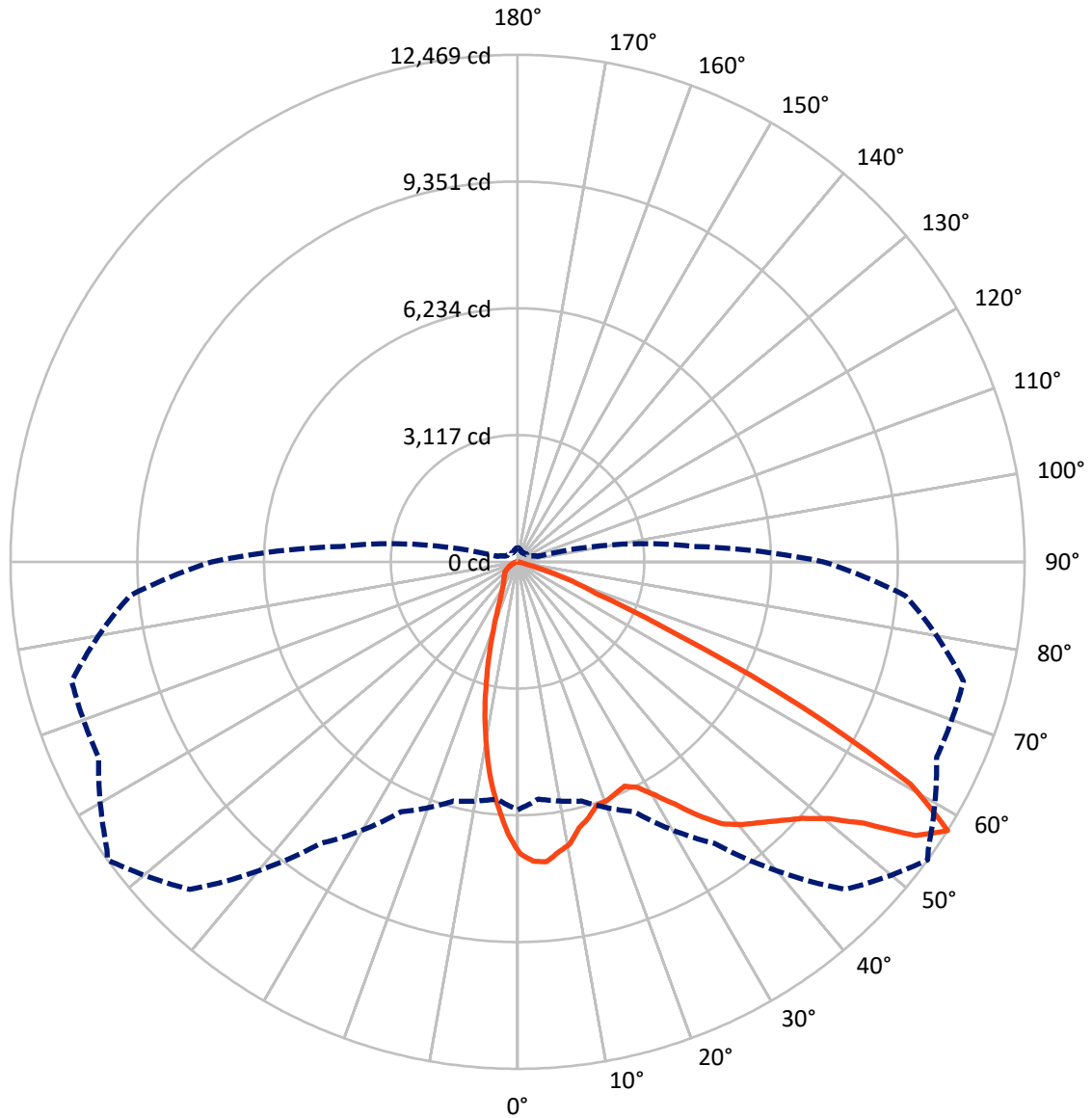
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	2303.3	0.0	2303.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	13995.7	0.0	13995.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	16299.0	0.0	16299.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	600.8	3.7
10°-20°	1282.8	7.9
20°-30°	1699.9	10.4
30°-40°	2470.5	15.2
40°-50°	3663.3	22.5
50°-60°	4580.9	28.1
60°-70°	1806.9	11.1
70°-80°	179.9	1.1
80°-90°	14.0	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°	16299.0	100.0
0°-180°	16299.0	100.0

Coefficient of Utilization



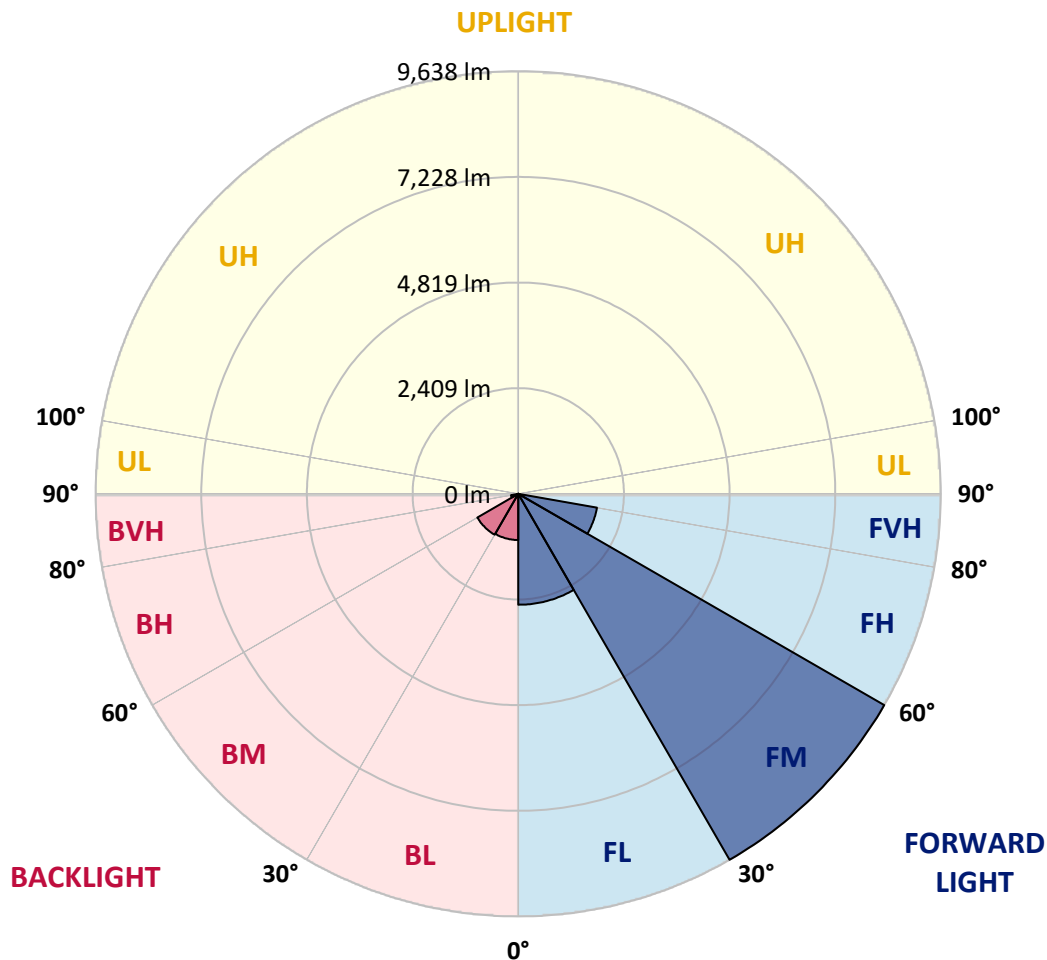
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2530.1	15.5			
FM (30°-60°)	9637.6	59.1			
FH (60°-80°)	1821.7	11.2			G2/5000
FVH (80°-90°)	6.4	0.0			G0/10
BL (0°-30°)	1053.4	6.5	B3/2500		
BM (30°-60°)	1077.1	6.6	B2/2500		
BH (60°-80°)	165.2	1.0	B1/500		G1/500
BVH (80°-90°)	7.6	0.0			G0/10
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°	7179.9	7179.9	7179.9	7179.9	7179.9	7179.9	7179.9	7179.9	7179.9	7179.9	7179.9
2.5°	7598.2	7519.4	7525.4	7498.2	7461.8	7489.1	7370.9	7398.1	7395.1	7234.5	7128.4
5°	7407.2	7492.1	7404.2	7476.9	7407.2	7483.0	7410.3	7355.7	7267.8	7149.6	6952.6
7.5°	7082.9	7001.1	7025.4	7116.3	7131.4	7301.2	7210.2	7279.9	7243.6	7010.2	6740.5
10°	6431.3	6413.1	6534.4	6655.6	6804.1	6986.0	7055.7	7016.3	6989.0	6901.1	6540.4
12.5°	5931.2	5982.8	5979.7	6179.8	6431.3	6534.4	6716.2	6710.2	6861.7	6698.0	6352.5
15°	5455.4	5482.7	5610.0	5734.2	6013.1	6307.1	6531.3	6561.6	6743.5	6628.3	6207.0
17.5°	5164.5	5125.1	5225.1	5373.6	5658.5	6043.4	6291.9	6364.6	6613.2	6588.9	6040.4
20°	4876.5	4876.5	4958.4	5134.1	5394.8	5828.2	6270.7	6249.5	6613.2	6543.5	5861.5
22.5°	4779.5	4828.0	4849.3	4982.6	5291.8	5664.5	6179.8	6219.2	6664.7	6522.2	5782.7
25°	4912.9	4849.3	4855.3	4961.4	5252.3	5585.7	6113.1	6201.0	6758.6	6628.3	5719.1
27.5°	4934.1	4997.8	5015.9	5088.7	5282.7	5610.0	6279.8	6458.6	6992.0	6876.9	5737.3
30°	5119.0	5182.6	5179.6	5303.9	5437.2	5807.0	6652.6	6688.9	7473.9	7189.0	5849.4
32.5°	5343.3	5410.0	5431.2	5576.6	5682.7	6167.6	7107.2	7201.1	7937.6	7680.0	6143.4
35°	5622.1	5597.9	5694.8	5840.3	6067.6	6695.0	7661.8	7819.4	8437.7	8316.5	6446.5
37.5°	5970.6	5940.3	6034.3	6270.7	6579.8	7319.3	8174.0	8277.1	8801.4	8907.5	7007.2
40°	6216.1	6228.3	6513.2	6831.4	7158.7	7913.4	8498.3	8598.3	9056.0	9459.1	7431.5
42.5°	6625.3	6701.1	7043.5	7431.5	7774.0	8358.9	8762.0	8859.0	9174.2	9901.6	8004.3
45°	7219.3	7186.0	7564.8	7998.2	8377.1	8822.6	9074.2	9040.8	9243.9	10341.0	8365.0
47.5°	7983.1	7989.1	8240.7	8610.5	9004.5	9225.7	9422.7	9304.5	9389.4	10804.7	8846.9
50°	8504.4	8549.8	8752.9	9131.8	9328.8	9668.2	9919.8	9847.0	9819.7	11083.6	9149.9
52.5°	8637.7	8774.1	8883.2	9356.0	9816.7	10353.2	10674.4	10829.0	10344.1	11177.5	9534.8
55°	7631.5	7752.7	8137.7	8786.2	10001.6	11438.2	11880.7	11883.7	11029.0	11595.8	9804.6
57.5°	6101.0	5855.5	6091.9	6779.9	8455.9	11392.7	12468.6	12326.2	11371.5	11350.3	9571.2
60°	4218.9	4158.2	4173.4	4446.2	5852.4	9062.0	11110.9	11295.7	10471.4	9837.9	7577.0
62.5°	3343.0	3291.4	3224.8	3194.4	3633.9	5646.4	7837.6	8098.3	7322.4	6379.8	4491.6
65°	2618.6	2588.3	2597.4	2718.6	2715.6	3203.5	4285.5	4179.5	3346.0	2473.1	1412.3
67.5°	1766.9	1812.4	1848.8	2215.5	2403.4	2230.7	2070.0	2009.4	1088.1	457.6	312.2
70°	994.1	1000.2	1039.6	1385.1	1824.5	1730.6	1427.5	1427.5	542.5	166.7	178.8
72.5°	542.5	524.3	488.0	597.1	812.3	824.4	636.5	554.6	160.6	109.1	100.0
75°	263.7	260.6	224.3	184.9	175.8	145.5	112.1	103.0	72.7	69.7	60.6
77.5°	54.6	51.5	27.3	27.3	30.3	33.3	42.4	42.4	51.5	51.5	42.4
80°	0.0	0.0	3.0	12.1	21.2	30.3	36.4	36.4	42.4	42.4	33.3
82.5°	0.0	0.0	3.0	9.1	18.2	27.3	33.3	36.4	42.4	45.5	36.4
85°	0.0	0.0	0.0	6.1	15.2	21.2	18.2	18.2	15.2	12.1	6.1
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°	7179.9	7179.9	7179.9	7179.9	7179.9	7179.9	7179.9	7179.9	7179.9	7179.9	7179.9
2.5°	7073.9	7067.8	6928.4	6849.6	6707.1	6582.9	6482.8	6410.1	6410.1	6364.6	6322.2
5°	6873.8	6822.3	6525.3	6334.3	6064.6	5864.6	5728.2	5622.1	5455.4	5500.9	5322.1
7.5°	6625.3	6495.0	6101.0	5810.0	5437.2	5152.3	4861.4	4603.8	4355.2	4243.1	4303.7
10°	6358.6	6131.3	5600.9	5140.2	4676.5	4155.2	3815.8	3403.6	3149.0	3133.8	3067.2
12.5°	6076.7	5819.1	5173.5	4537.1	3927.9	3300.5	2782.3	2397.4	2224.6	2033.7	2070.0
15°	5864.6	5482.7	4697.7	3930.9	3121.7	2488.3	1967.0	1670.0	1506.3	1460.8	1445.7
17.5°	5634.2	5225.1	4212.8	3285.4	2448.9	1791.2	1415.4	1272.9	1209.3	1209.3	1200.2
20°	5394.8	4934.1	3730.9	2685.3	1836.7	1336.6	1133.5	1088.1	1085.0	1082.0	1082.0
22.5°	5237.2	4600.7	3294.5	2133.7	1385.1	1069.9	985.0	966.8	978.9	1015.3	1015.3
25°	5070.5	4279.5	2812.6	1645.7	1072.9	918.3	869.8	882.0	912.3	945.6	933.5
27.5°	4900.8	4070.3	2358.0	1291.1	878.9	803.2	785.0	812.3	845.6	875.9	866.8
30°	4861.4	3846.1	1927.6	978.9	754.7	700.1	712.2	736.5	769.8	781.9	794.1
32.5°	4922.0	3670.3	1579.0	803.2	657.7	642.5	642.5	654.6	675.9	703.1	694.0
35°	5094.7	3570.3	1248.7	697.1	603.1	588.0	584.9	597.1	609.2	618.3	609.2
37.5°	5358.4	3491.5	1021.4	618.3	566.8	542.5	536.4	533.4	545.5	548.6	554.6
40°	5694.8	3533.9	866.8	569.8	530.4	503.1	484.9	484.9	484.9	494.0	497.0
42.5°	6058.5	3591.5	748.6	542.5	497.0	463.7	445.5	439.5	445.5	457.6	454.6
45°	6440.4	3703.6	672.8	500.1	466.7	424.3	400.1	394.0	409.2	433.4	430.4
47.5°	6798.1	3864.3	615.2	472.8	436.4	397.0	366.7	360.7	387.9	421.3	424.3
50°	7155.7	4143.1	594.0	451.6	415.2	369.8	342.5	336.4	366.7	409.2	418.2
52.5°	7567.9	4443.1	578.9	424.3	391.0	348.5	318.2	312.2	345.5	400.1	403.1
55°	7837.6	4697.7	566.8	375.8	345.5	315.2	291.0	287.9	324.3	372.8	384.9
57.5°	7522.4	4343.1	524.3	327.3	294.0	278.8	257.6	257.6	287.9	333.4	342.5
60°	5703.9	2858.0	372.8	263.7	248.5	239.4	230.3	230.3	254.6	287.9	291.0
62.5°	3339.9	1539.6	239.4	212.2	212.2	203.1	187.9	187.9	212.2	230.3	233.4
65°	991.1	494.0	194.0	181.8	178.8	163.7	148.5	145.5	163.7	172.8	169.7
67.5°	284.9	227.3	160.6	151.5	148.5	124.3	115.2	112.1	115.2	109.1	106.1
70°	169.7	154.6	124.3	127.3	112.1	90.9	81.8	78.8	72.7	63.6	57.6
72.5°	94.0	94.0	90.9	97.0	78.8	60.6	51.5	42.4	33.3	27.3	24.2
75°	57.6	60.6	63.6	66.7	51.5	39.4	33.3	21.2	12.1	6.1	6.1
77.5°	39.4	42.4	45.5	48.5	42.4	36.4	27.3	15.2	3.0	0.0	0.0
80°	30.3	33.3	39.4	42.4	45.5	48.5	36.4	15.2	3.0	0.0	0.0
82.5°	33.3	36.4	45.5	42.4	42.4	42.4	33.3	15.2	3.0	0.0	0.0
85°	6.1	9.1	15.2	15.2	21.2	27.3	21.2	6.1	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)