

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: P459190

Luminaire Tested: **GALN-SA6D-735-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459190
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35151 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

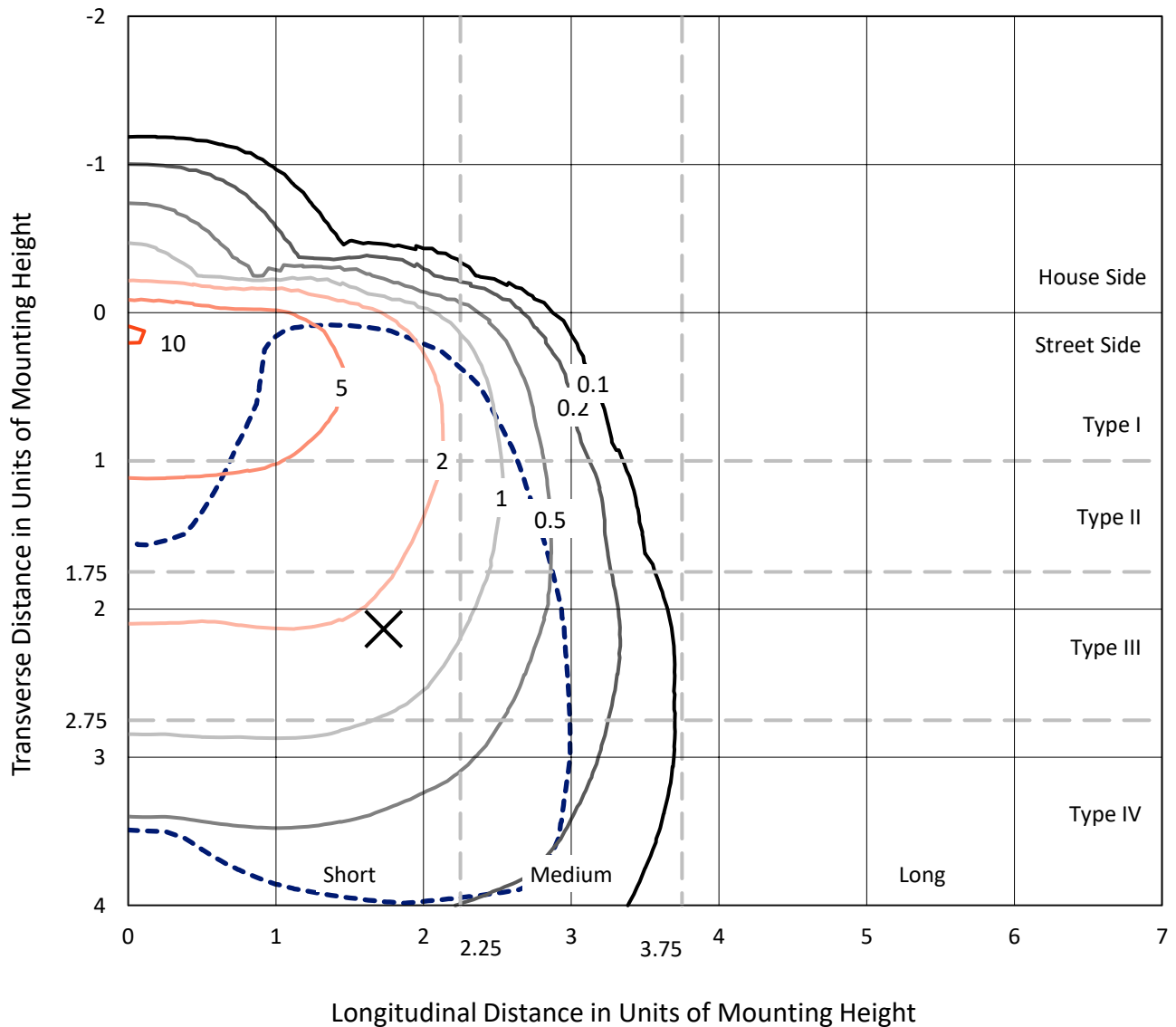
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

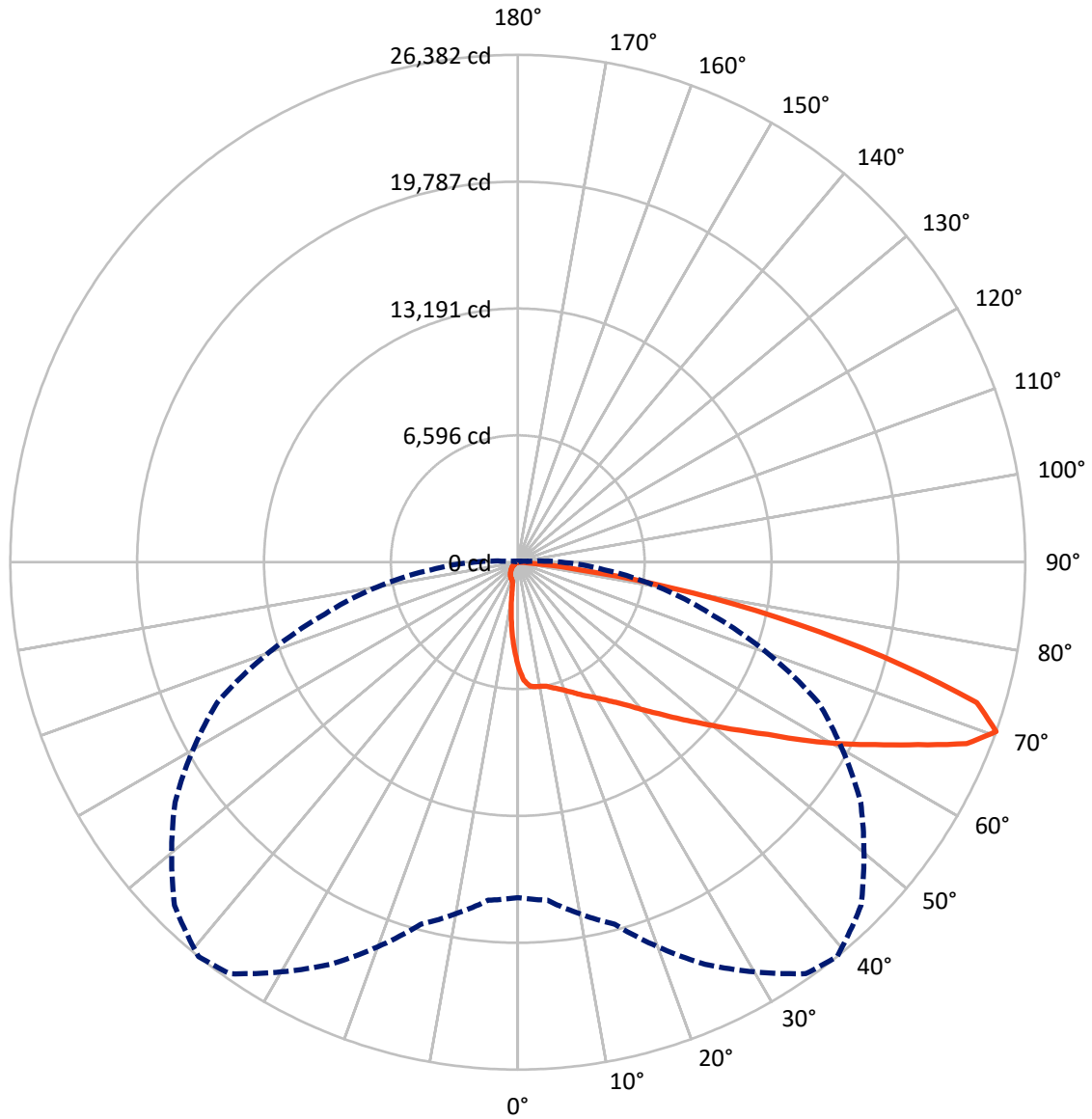
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2292.0	0.0	2292.0
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	32859.0	0.0	32859.0
	% Fixture	93.5	0.0	93.5
Total	Lumens	35151.0	0.0	35151.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.8	1.3
10°-20°	1215.7	3.5
20°-30°	2036.6	5.8
30°-40°	3158.6	9.0
40°-50°	5005.4	14.2
50°-60°	7337.2	20.9
60°-70°	9404.5	26.8
70°-80°	5909.5	16.8
80°-90°	615.6	1.8
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°	35151.0	100.0
0°-180°	35151.0	100.0



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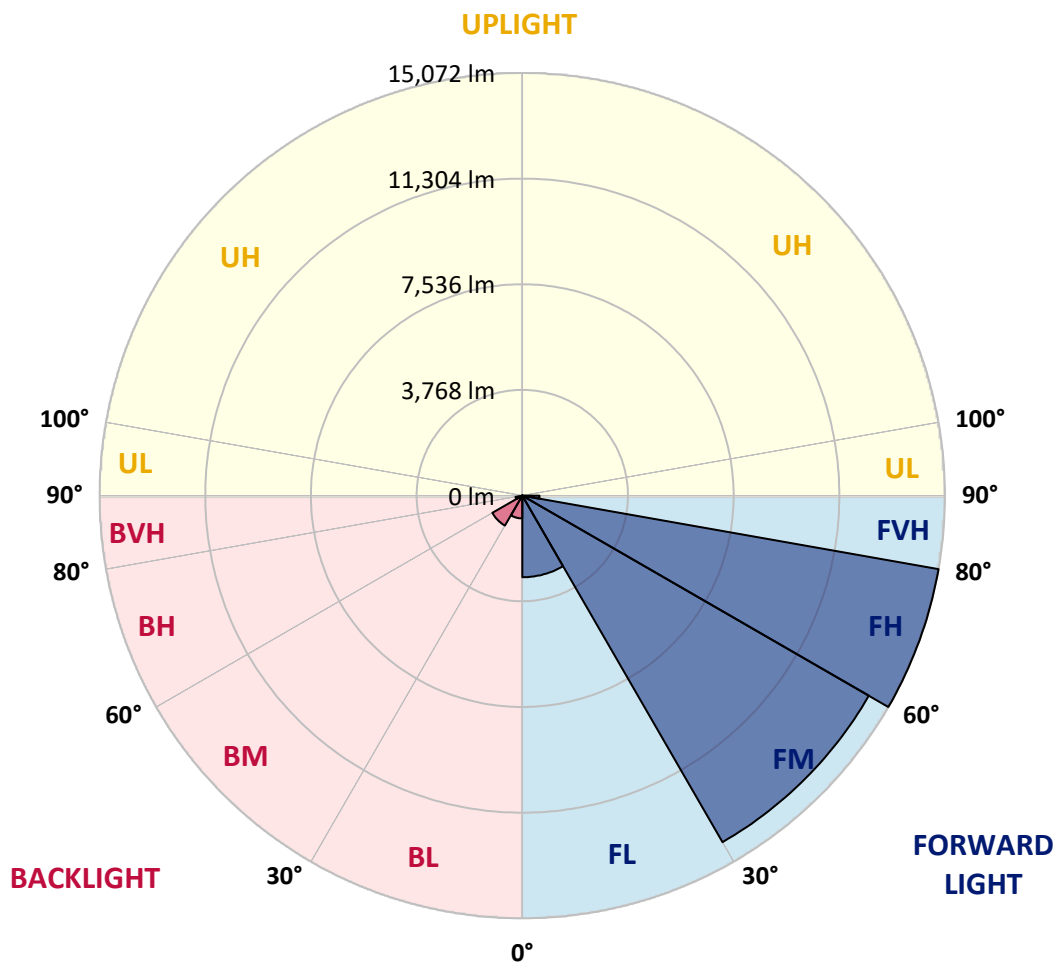
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2908.6	8.3			
FM	(30°-60°)	14267.7	40.6			
FH	(60°-80°)	15071.6	42.9			G5
FVH	(80°-90°)	611.1	1.7			G4/750
BL	(0°-30°)	811.6	2.3	B2/1000		
BM	(30°-60°)	1233.5	3.5	B2/2500		
BH	(60°-80°)	242.4	0.7	B1/500		G1/500
BVH	(80°-90°)	4.5	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5484.8	5484.8	5484.8	5484.8	5484.8	5484.8	5484.8	5484.8	5484.8	5484.8	5484.8
2.5°	6337.5	6316.2	6287.9	6254.8	6160.3	6143.8	6087.1	5966.6	5822.5	5704.4	5541.5
5°	6637.5	6649.3	6628.0	6569.0	6500.5	6460.3	6389.4	6202.8	6016.2	5777.7	5510.7
7.5°	6706.0	6729.6	6703.6	6646.9	6580.8	6538.3	6481.6	6320.9	6103.6	5832.0	5465.9
10°	6698.9	6727.2	6710.7	6658.7	6604.4	6564.2	6502.8	6375.3	6200.5	5914.7	5480.0
12.5°	6687.1	6724.9	6722.5	6696.5	6651.6	6620.9	6583.1	6469.8	6306.8	6035.1	5558.0
15°	6654.0	6701.2	6743.8	6765.0	6767.4	6767.4	6720.1	6599.7	6443.8	6193.4	5659.6
17.5°	6668.2	6722.5	6828.8	6890.2	6932.7	6928.0	6878.4	6748.5	6576.0	6356.4	5765.8
20°	6755.6	6828.8	6977.6	7100.4	7142.9	7128.8	7062.6	6911.5	6715.4	6495.7	5869.8
22.5°	6970.5	7036.7	7223.3	7367.3	7398.1	7360.3	7265.8	7060.3	6883.1	6646.9	5995.0
25°	7291.8	7369.7	7542.1	7650.8	7650.8	7629.5	7497.3	7256.3	7072.1	6857.1	6158.0
27.5°	7681.5	7747.6	7917.7	8014.6	7957.9	7896.5	7764.2	7473.6	7296.5	7121.7	6354.0
30°	8076.0	8118.5	8298.0	8340.5	8281.5	8203.5	8061.8	7771.3	7615.4	7480.7	6637.5
32.5°	8449.2	8541.3	8690.1	8680.7	8600.4	8562.6	8432.6	8123.2	8035.8	8021.6	7034.3
35°	8822.4	8893.3	9025.5	9058.6	8987.7	8980.6	8886.2	8657.0	8659.4	8751.5	7653.2
37.5°	9143.6	9207.4	9363.3	9436.5	9450.7	9486.1	9448.3	9297.2	9512.1	9764.9	8472.8
40°	9412.9	9502.7	9701.1	9828.6	9975.1	10105.0	10112.1	10145.2	10577.4	11012.0	9542.8
42.5°	9623.1	9748.3	10036.5	10272.7	10608.1	10773.5	10905.7	11087.6	11815.1	12464.7	10804.2
45°	9897.1	10041.2	10400.3	10771.1	11295.5	11567.1	11751.4	12238.0	13270.2	14156.0	12098.6
47.5°	10350.7	10426.2	10792.4	11333.3	12023.0	12410.4	12769.4	13506.4	14831.5	15625.2	13175.7
50°	10934.1	10983.7	11260.1	12011.2	12904.1	13414.3	14068.6	14935.5	16451.9	16844.0	13785.1
52.5°	11578.9	11595.5	11803.3	12757.6	13891.4	14533.9	15266.2	16336.2	17772.3	17713.3	14189.0
55°	12327.7	12304.1	12481.3	13567.8	15060.7	15795.3	16648.0	17770.0	18917.9	18329.8	14420.5
57.5°	13185.2	13121.4	13293.8	14642.6	16558.2	17436.9	18303.8	19007.7	19806.1	18847.1	14531.5
60°	14082.8	13955.2	14160.7	15849.6	18322.7	19156.5	19876.9	20065.9	20741.5	19258.1	14340.2
62.5°	14798.5	14800.8	15183.5	17134.6	20136.8	20866.7	21249.3	21419.4	21546.9	19168.3	13334.0
65°	15915.7	15953.5	16565.3	18917.9	22236.7	22869.7	23131.9	22579.2	21582.4	18053.4	11822.2
67.5°	17068.4	17188.9	18308.5	21374.5	24662.5	25172.7	24835.0	22803.6	20618.6	15509.5	8964.1
70°	17444.0	17642.4	19487.2	23065.8	26117.6	26382.1	25238.9	21757.2	17236.1	10369.6	4511.6
72.5°	15984.2	16305.5	18809.3	22449.3	25189.3	24960.2	22581.5	18247.1	10957.7	3937.6	1377.1
75°	11271.9	11413.6	15632.3	18622.7	20259.6	19610.0	17177.1	11763.2	4506.9	1105.5	472.4
77.5°	5820.2	5751.7	9297.2	12356.1	14448.9	13775.7	11248.2	6089.5	1707.8	460.6	292.9
80°	3009.3	3058.9	4022.6	6474.5	8820.0	8116.1	5997.3	2822.7	909.4	255.1	224.4
82.5°	1686.5	1582.6	2312.5	2827.4	4124.2	3233.7	2300.7	1998.3	396.8	153.5	212.6
85°	307.1	321.2	1268.4	1528.3	1431.4	909.4	741.7	1334.6	115.7	85.0	148.8
87.5°	4.7	4.7	245.7	439.3	278.7	127.6	233.8	191.3	23.6	33.1	26.0
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°	5484.8	5484.8	5484.8	5484.8	5484.8	5484.8	5484.8	5484.8	5484.8	5484.8	5484.8
2.5°	5458.8	5369.0	5201.3	5036.0	4825.7	4653.3	4537.6	4417.1	4294.3	4303.7	4332.1
5°	5364.3	5208.4	4877.7	4528.1	4192.7	3890.4	3592.7	3325.8	3217.2	3118.0	3122.7
7.5°	5269.8	5050.1	4565.9	4017.9	3510.1	2995.1	2621.9	2314.8	2151.9	2029.0	1993.6
10°	5227.3	4936.8	4280.1	3526.6	2806.2	2244.0	1764.5	1514.1	1320.4	1259.0	1275.5
12.5°	5246.2	4880.1	4022.6	3082.5	2225.1	1563.7	1228.3	1100.7	1058.2	1051.1	1046.4
15°	5281.6	4839.9	3769.9	2591.2	1634.6	1162.1	1032.2	1008.6	1003.9	999.2	1001.5
17.5°	5328.9	4804.5	3500.6	2130.6	1254.3	1015.7	977.9	966.1	963.7	963.7	963.7
20°	5376.1	4764.3	3200.6	1719.6	1046.4	959.0	935.4	928.3	925.9	925.9	923.6
22.5°	5430.4	4728.9	2895.9	1351.1	963.7	918.9	897.6	892.9	890.5	888.1	888.1
25°	5508.4	4684.0	2572.3	1105.5	911.8	881.1	859.8	855.1	852.7	843.3	845.6
27.5°	5612.3	4650.9	2239.3	954.3	864.5	833.8	819.6	812.6	807.8	800.7	803.1
30°	5754.0	4622.6	1884.9	871.6	810.2	784.2	770.0	765.3	760.6	753.5	753.5
32.5°	5999.7	4634.4	1511.7	805.5	760.6	729.9	715.7	711.0	706.3	699.2	699.2
35°	6368.2	4702.9	1209.4	748.8	701.5	670.8	656.7	656.7	649.6	640.1	637.8
37.5°	6970.5	4877.7	970.8	694.5	644.8	616.5	600.0	595.2	588.2	574.0	571.6
40°	7681.5	5149.3	817.3	640.1	592.9	564.5	550.4	536.2	517.3	503.1	500.8
42.5°	8574.4	5428.1	708.6	585.8	543.3	517.3	500.8	477.1	448.8	429.9	427.5
45°	9505.0	5683.2	635.4	536.2	496.0	474.8	455.9	418.1	382.7	359.0	356.7
47.5°	10199.5	5730.4	576.3	489.0	455.9	434.6	408.6	361.4	314.2	292.9	285.8
50°	10527.8	5501.3	514.9	441.7	415.7	392.1	359.0	304.7	252.7	226.8	222.0
52.5°	10643.6	5104.5	465.3	399.2	375.6	347.2	307.1	245.7	198.4	172.4	170.1
55°	10596.3	4603.7	420.5	359.0	328.3	295.3	255.1	196.1	146.4	125.2	120.5
57.5°	10348.3	3965.9	375.6	318.9	281.1	248.0	203.1	146.4	99.2	80.3	77.9
60°	9679.8	3096.7	330.7	274.0	238.6	203.1	160.6	103.9	61.4	44.9	44.9
62.5°	8550.7	2298.3	288.2	229.1	200.8	163.0	113.4	66.1	33.1	23.6	21.3
65°	7145.3	1696.0	240.9	193.7	167.7	127.6	80.3	40.2	16.5	7.1	4.7
67.5°	4986.4	1046.4	200.8	158.3	137.0	92.1	49.6	16.5	7.1	0.0	0.0
70°	2265.2	498.4	153.5	120.5	103.9	66.1	26.0	9.4	4.7	0.0	0.0
72.5°	703.9	262.2	108.7	87.4	70.9	42.5	14.2	7.1	4.7	0.0	0.0
75°	326.0	167.7	68.5	47.2	40.2	21.3	9.4	4.7	2.4	0.0	0.0
77.5°	243.3	129.9	40.2	26.0	21.3	14.2	7.1	4.7	2.4	0.0	0.0
80°	212.6	66.1	23.6	16.5	11.8	9.4	4.7	2.4	0.0	0.0	0.0
82.5°	191.3	33.1	14.2	9.4	7.1	4.7	2.4	2.4	0.0	0.0	0.0
85°	103.9	18.9	9.4	7.1	4.7	2.4	2.4	0.0	0.0	0.0	0.0
87.5°	18.9	9.4	7.1	4.7	4.7	2.4	2.4	2.4	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)