

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: P382657

Luminaire Tested: **GLEON-SA0C-735-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382657
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0C-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53388 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

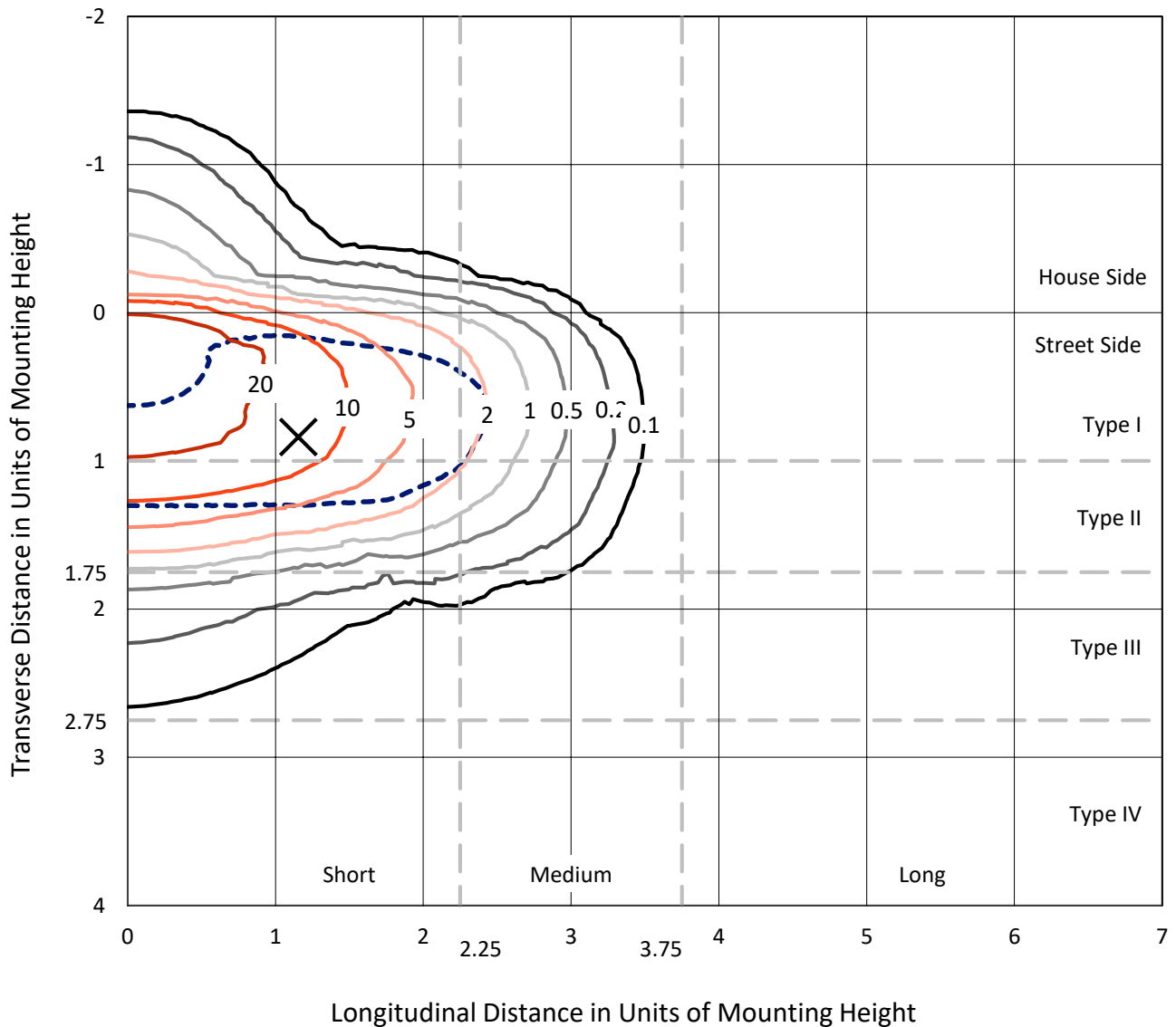
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

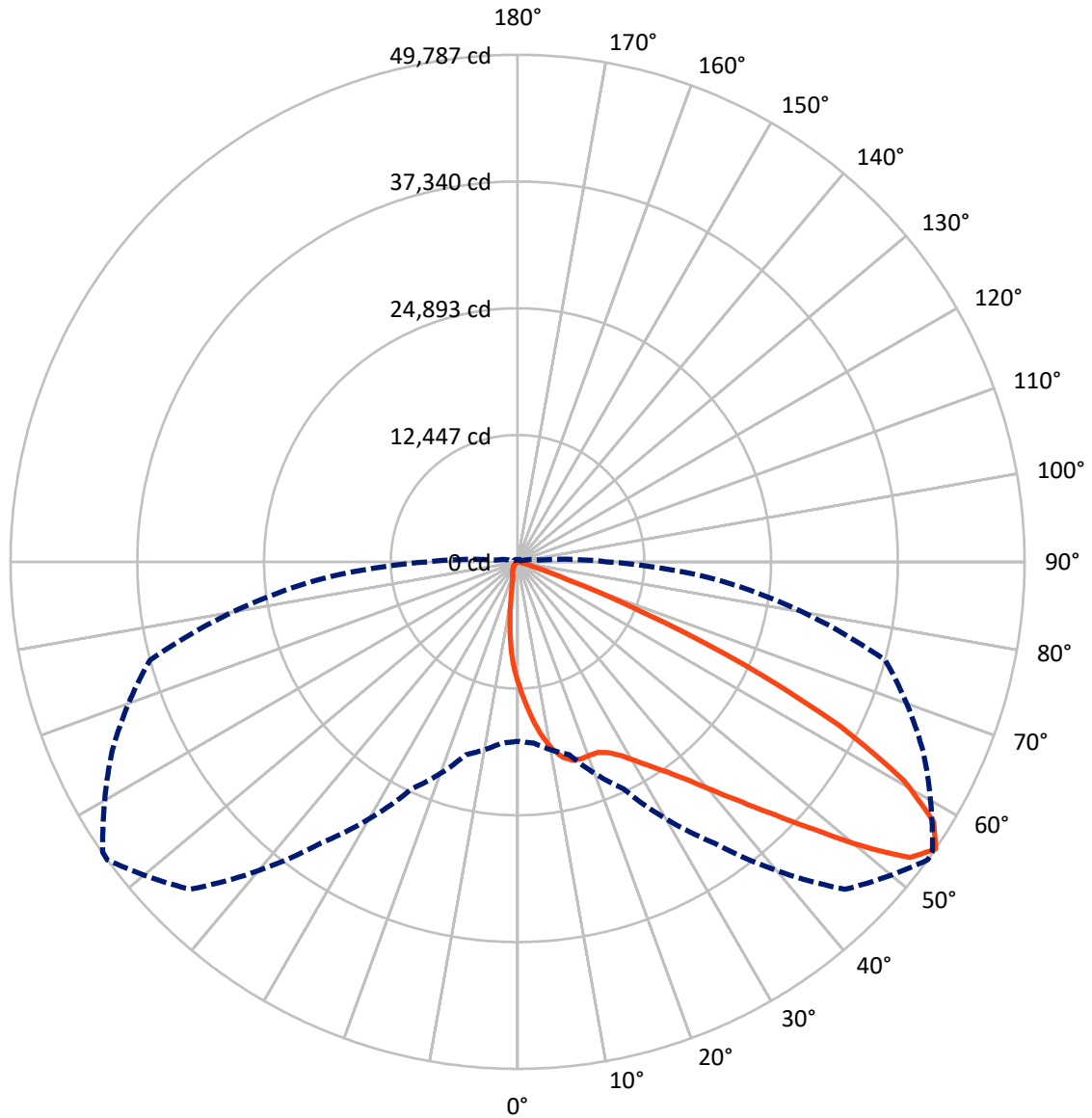
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2663.7	0.0	2663.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	50724.3	0.0	50724.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	53388.0	0.0	53388.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1101.1	2.1
10°-20°	3019.8	5.7
20°-30°	5155.7	9.7
30°-40°	8274.0	15.5
40°-50°	13222.0	24.8
50°-60°	14167.7	26.5
60°-70°	7274.1	13.6
70°-80°	1101.9	2.1
80°-90°	71.8	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°	53388.0	100.0
0°-180°	53388.0	100.0

Coefficient of Utilization

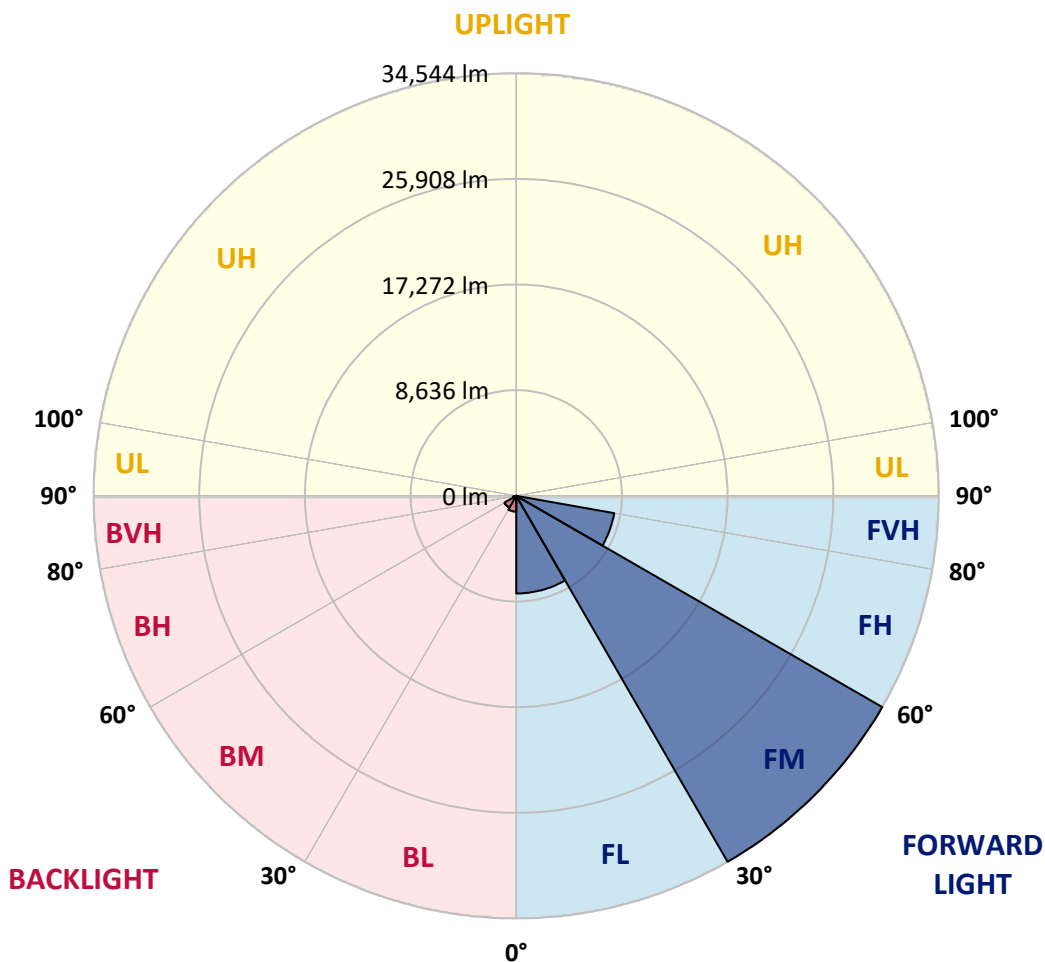


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7980.6	14.9			
FM (30°-60°)	34544.3	64.7			
FH (60°-80°)	8130.5	15.2			G4/12000
FVH (80°-90°)	68.9	0.1			G1/100
BL (0°-30°)	1296.0	2.4	B3/2500		
BM (30°-60°)	1119.3	2.1	B2/2500		
BH (60°-80°)	245.5	0.5	B1/500		G1/500
BVH (80°-90°)	2.9	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-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11956.8	11956.8	11956.8	11956.8	11956.8	11956.8	11956.8	11956.8	11956.8	11956.8	11956.8
2.5°	15004.7	14781.1	14788.0	14686.6	14315.4	14024.8	13722.8	13651.4	13181.0	12687.6	12212.7
5°	17598.5	17434.8	17395.6	17199.6	16683.2	16136.7	15551.2	15415.2	14495.2	13485.4	12491.7
7.5°	18931.1	18933.4	18901.2	18829.7	18506.9	17976.6	17261.9	17119.0	15867.1	14352.3	12782.1
10°	18543.8	18631.4	18811.2	19048.8	19295.4	19228.5	18691.3	18562.2	17202.0	15269.8	13104.9
12.5°	17640.0	17651.5	17852.1	18241.8	18951.9	19680.4	19689.7	19645.9	18477.0	16229.0	13460.0
15°	17190.4	17234.2	17308.0	17559.3	18232.5	19399.2	20233.8	20296.0	19645.9	17248.1	13838.1
17.5°	17485.5	17547.7	17485.5	17515.5	17905.2	18954.2	20328.3	20487.4	20667.2	18255.6	14195.5
20°	18285.5	18343.2	18232.5	18110.3	18186.4	18825.1	20261.4	20475.9	21467.2	19150.2	14495.2
22.5°	19364.5	19387.6	19219.3	19018.8	18963.4	19263.1	20316.8	20538.1	22108.2	19959.4	14684.3
25°	20552.0	20572.7	20362.9	20132.3	20000.9	20123.1	20771.0	20937.0	22673.1	20731.8	14792.6
27.5°	21845.4	21863.9	21601.0	21317.4	21165.2	21169.9	21520.3	21697.9	23274.9	21612.6	14880.3
30°	23212.6	23203.4	22961.3	22567.0	22373.4	22368.8	22599.3	22779.1	24146.4	22742.2	15000.2
32.5°	24748.1	24729.7	24386.1	23897.4	23678.4	23710.6	23915.8	24019.6	25227.7	23945.8	15214.5
35°	26770.2	26717.1	26198.4	25591.9	25188.5	25176.9	25349.9	25432.9	26606.4	25402.9	15571.9
37.5°	29393.9	29345.4	28642.3	27761.5	27194.4	26982.3	27187.4	27293.5	28573.1	27272.7	16146.0
40°	31980.8	31932.3	31515.0	30708.1	29834.2	29324.7	29486.1	29599.1	31028.5	29541.4	16870.0
42.5°	33765.2	33806.8	33952.0	34018.9	33200.4	32130.6	32204.3	32322.0	33608.5	31966.9	17697.6
45°	34235.6	34325.5	35146.3	36757.9	37064.5	36229.9	35457.6	35522.1	36229.9	34392.4	18525.3
47.5°	32822.2	32988.2	34572.2	37569.5	40165.5	40755.8	39294.1	39208.7	38745.3	36354.4	19113.3
50°	29610.6	29762.8	31814.8	36248.4	41106.2	45076.5	43891.4	43640.1	40951.8	37528.0	19320.8
52.5°	24962.6	25147.0	26813.9	32089.1	39333.2	47003.9	48244.3	48034.5	42570.2	37620.2	19355.3
55°	17628.5	17852.1	19615.9	24593.7	33714.6	45470.7	49786.7	49724.5	43914.5	37375.8	19429.1
57.5°	9907.1	10068.4	11970.6	15765.6	24692.8	39605.3	48175.2	48587.8	44726.0	36951.6	19539.8
60°	4399.0	4442.8	5427.4	7848.2	14456.0	30267.7	43561.7	44258.0	44029.7	36384.4	19726.5
62.5°	2439.4	2402.5	2402.5	3262.4	6282.7	18737.4	35522.1	36672.6	41057.8	35713.5	19735.8
65°	1911.3	1876.8	1777.6	1791.5	2393.2	8316.2	24598.3	26643.3	35413.7	33746.8	19071.8
67.5°	1620.8	1590.9	1491.7	1452.6	1487.1	2743.7	13515.4	15638.7	26871.6	28635.3	16519.5
70°	1369.6	1348.8	1298.0	1249.7	1162.0	1355.7	5171.4	6614.7	16558.7	19048.8	11276.6
72.5°	1102.1	1092.9	1111.3	1069.8	963.8	903.8	1768.4	2141.9	7437.8	8500.7	4645.7
75°	949.9	945.3	954.6	913.0	793.1	629.4	899.2	982.2	2098.1	2079.7	940.7
77.5°	617.9	624.8	790.8	772.3	682.5	419.7	465.8	502.7	636.3	477.2	285.9
80°	394.2	389.7	401.2	641.0	613.3	320.5	232.9	244.4	306.7	235.2	138.3
82.5°	239.8	235.2	262.9	299.8	309.0	223.7	143.0	145.2	191.3	152.2	73.8
85°	20.8	27.7	159.1	147.6	106.1	69.2	69.2	73.8	101.4	89.9	41.5
87.5°	0.0	0.0	27.7	41.5	23.1	25.3	25.3	27.7	39.2	39.2	20.8
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°	11956.8	11956.8	11956.8	11956.8	11956.8	11956.8	11956.8	11956.8	11956.8	11956.8	11956.8
2.5°	11966.0	11726.2	11242.0	10776.3	10382.0	10001.7	9568.2	9139.3	8938.8	8858.1	8775.1
5°	11986.7	11493.3	10495.0	9489.8	8447.6	7509.3	6709.3	5888.5	5478.1	5298.3	5215.3
7.5°	12014.4	11262.8	9648.9	7961.2	6282.7	5010.0	3898.7	3184.0	2875.0	2826.7	2706.8
10°	12019.0	10983.8	8666.7	6273.5	4212.3	3020.4	2324.0	1955.1	1819.1	1796.0	1756.9
12.5°	12028.2	10654.1	7576.2	4645.7	2808.2	2019.7	1680.8	1558.6	1521.7	1519.4	1519.4
15°	12055.9	10308.2	6444.1	3347.7	2017.4	1600.1	1475.6	1427.1	1413.3	1420.2	1417.9
17.5°	12055.9	9900.2	5332.8	2494.7	1630.0	1438.7	1369.6	1337.2	1332.7	1339.6	1341.9
20°	11968.2	9404.4	4313.7	1941.3	1445.6	1334.9	1272.7	1242.7	1231.2	1235.8	1238.1
22.5°	11758.5	8795.8	3483.7	1607.0	1323.4	1240.4	1173.6	1127.5	1109.0	1111.3	1111.3
25°	11431.1	8074.2	2725.2	1390.2	1224.2	1139.0	1060.6	1007.6	996.0	993.7	998.3
27.5°	11011.5	7276.4	2169.6	1224.2	1106.7	1026.0	947.6	903.8	894.6	896.9	899.2
30°	10598.8	6448.7	1710.8	1083.7	975.2	899.2	839.2	818.5	818.5	825.4	827.7
32.5°	10220.7	5653.3	1353.4	961.5	857.7	788.6	753.9	751.7	763.1	767.8	770.1
35°	9895.6	4917.8	1120.6	866.9	765.5	705.6	694.0	703.2	717.0	726.2	728.6
37.5°	9665.0	4260.7	979.9	788.6	694.0	645.6	643.2	661.7	680.1	700.9	705.6
40°	9568.2	3705.0	883.0	719.3	636.3	599.5	592.6	617.9	652.5	682.5	687.1
42.5°	9487.4	3250.9	800.0	652.5	590.2	537.2	534.9	567.2	608.7	638.7	645.6
45°	9418.3	2886.6	724.0	581.0	530.3	461.1	468.0	509.6	541.8	574.1	581.0
47.5°	9275.3	2586.9	641.0	504.9	438.1	394.2	408.1	445.0	470.3	518.8	525.7
50°	9019.4	2342.5	555.7	412.7	357.3	341.2	362.0	387.3	419.7	461.1	465.8
52.5°	8846.5	2158.0	481.9	345.9	295.1	299.8	320.5	329.7	348.1	364.3	359.7
55°	8747.4	2056.6	421.9	299.8	251.3	265.1	269.8	258.2	249.0	232.9	226.0
57.5°	8735.9	1964.4	375.8	260.6	221.3	228.2	212.1	172.9	140.7	122.2	117.6
60°	8717.4	1851.4	338.9	219.0	196.0	186.8	152.2	94.6	66.9	62.2	62.2
62.5°	8516.9	1676.1	311.2	184.4	166.0	140.7	87.7	43.8	36.9	39.2	39.2
65°	7878.2	1431.8	283.6	149.9	131.4	101.4	43.8	25.3	13.9	16.1	16.1
67.5°	6697.7	1141.2	253.7	115.3	99.1	64.6	25.3	11.6	0.0	0.0	0.0
70°	4484.4	707.8	214.4	80.7	64.6	39.2	18.4	2.3	0.0	0.0	0.0
72.5°	1720.0	382.8	172.9	48.4	41.5	27.7	11.6	0.0	0.0	0.0	0.0
75°	387.3	251.3	119.9	34.6	30.0	18.4	4.7	0.0	0.0	0.0	0.0
77.5°	147.6	182.1	69.2	23.1	20.8	11.6	0.0	0.0	0.0	0.0	0.0
80°	71.4	108.3	32.3	13.9	11.6	4.7	0.0	0.0	0.0	0.0	0.0
82.5°	36.9	41.5	13.9	6.9	4.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.8	20.8	6.9	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.6	6.9	2.3	2.3	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)