

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: P383622

Luminaire Tested: **GLEON-SA9A-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9A-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27608.3 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

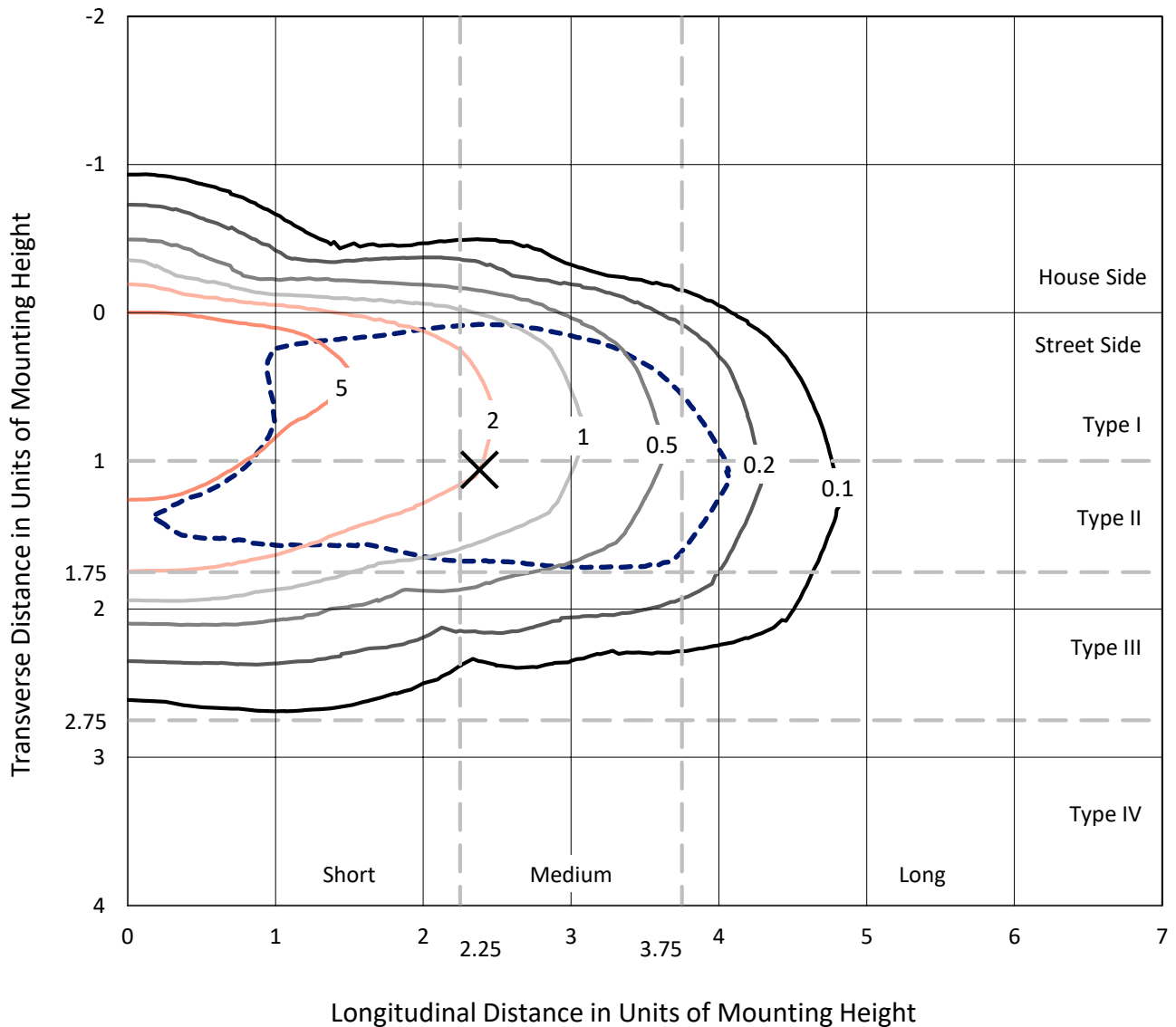
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

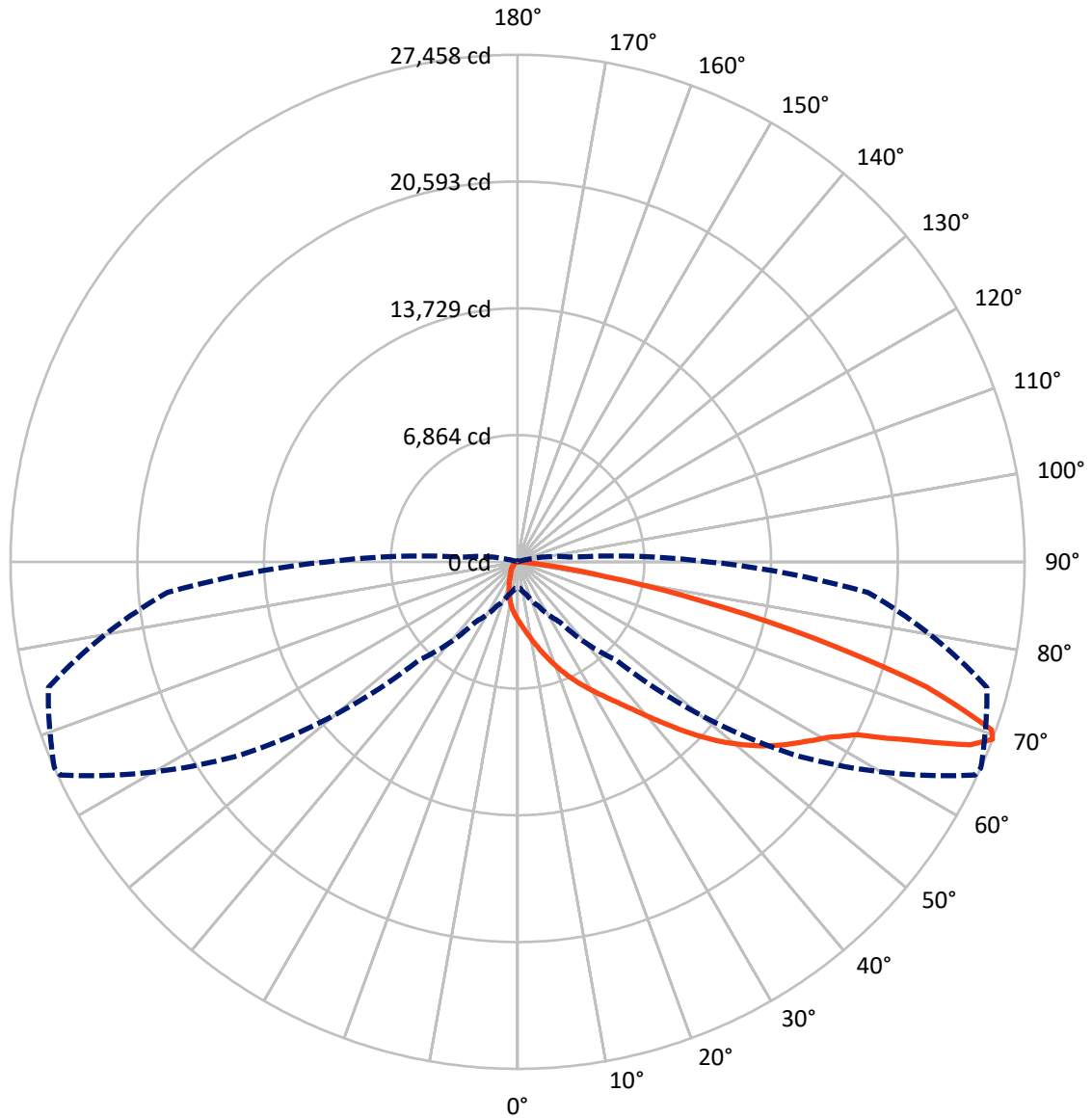
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1656.1	0.0	1656.1
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	25952.2	0.0	25952.2
	% Fixture	94.0	0.0	94.0
Total	Lumens	27608.3	0.0	27608.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.7	1.1
10°-20°	903.9	3.3
20°-30°	1574.0	5.7
30°-40°	2761.6	10.0
40°-50°	4622.5	16.7
50°-60°	6794.6	24.6
60°-70°	6976.3	25.3
70°-80°	3444.0	12.5
80°-90°	227.7	0.8
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°	27608.3	100.0
0°-180°	27608.3	100.0

Coefficient of Utilization

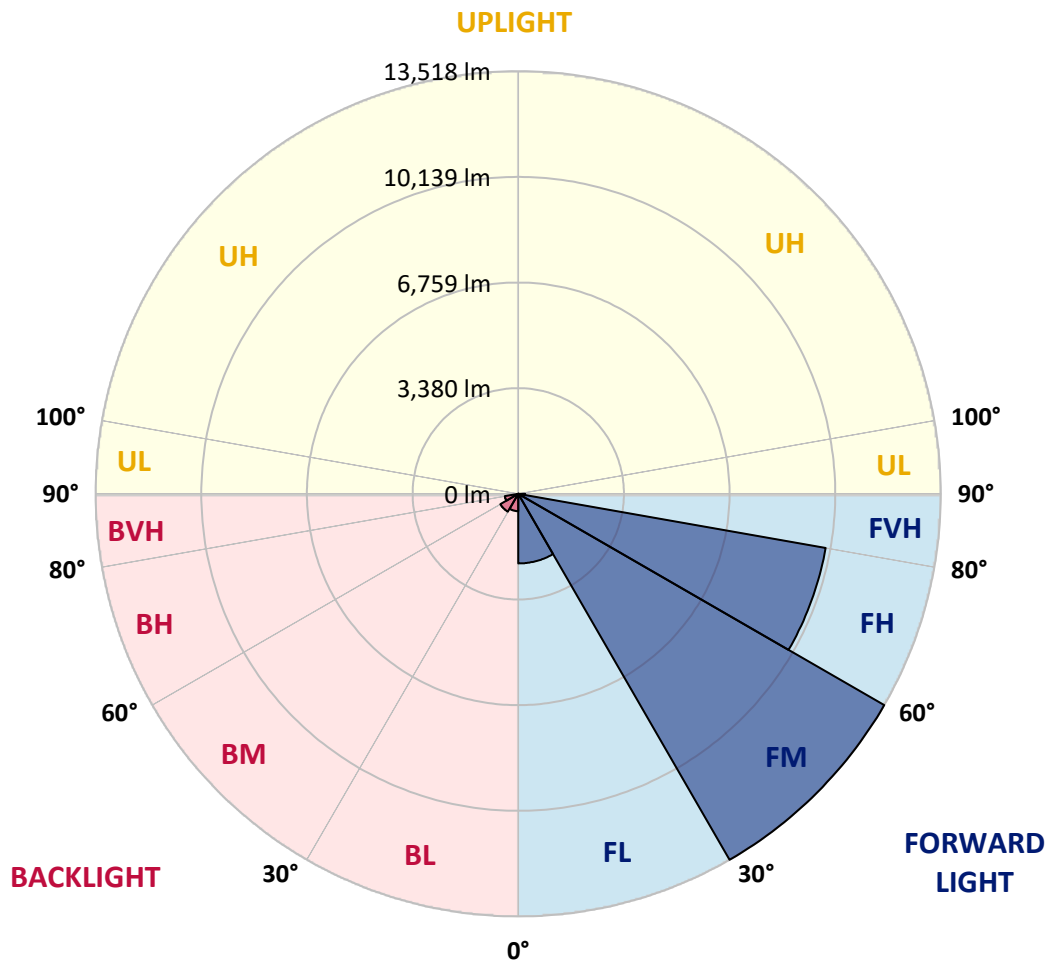


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2227.7	8.1			
FM (30°-60°)	13518.3	49.0			
FH (60°-80°)	9983.9	36.2			G4/12000
FVH (80°-90°)	222.2	0.8			G2/225
BL (0°-30°)	553.9	2.0	B2/1000		
BM (30°-60°)	660.3	2.4	B1/1000		
BH (60°-80°)	436.4	1.6	B1/500		G1/500
BVH (80°-90°)	5.5	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-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9
2.5°	3697.9	3682.1	3675.6	3646.7	3596.9	3558.9	3485.5	3400.2	3384.5	3301.9	3200.9
5°	4177.8	4164.8	4155.5	4114.9	4063.8	3968.0	3834.2	3675.6	3645.4	3488.1	3286.1
7.5°	4512.2	4535.8	4535.8	4509.6	4445.3	4373.2	4209.3	3993.0	3954.9	3713.6	3400.2
10°	4707.6	4736.5	4758.7	4781.1	4771.9	4743.1	4588.2	4344.4	4298.5	3978.5	3532.7
12.5°	4726.0	4754.8	4817.8	4910.8	5001.4	5067.0	4969.9	4733.8	4681.4	4285.4	3690.0
15°	4623.7	4653.8	4750.9	4931.9	5150.8	5342.3	5373.7	5165.2	5111.5	4651.2	3886.7
17.5°	4445.3	4465.0	4604.0	4854.5	5198.0	5549.5	5739.6	5628.1	5578.3	5069.6	4105.7
20°	4312.9	4327.3	4449.3	4718.1	5169.2	5679.3	6085.8	6119.9	6067.4	5518.0	4343.1
22.5°	4539.8	4566.0	4569.9	4697.1	5090.5	5743.5	6390.0	6603.7	6564.4	5994.0	4576.5
25°	5160.0	5190.2	5090.5	5011.8	5157.4	5772.4	6651.0	7099.4	7068.0	6506.8	4811.3
27.5°	5979.6	6011.1	5882.5	5647.8	5507.5	5881.2	6883.1	7603.0	7601.7	7049.7	5064.3
30°	6784.7	6816.2	6685.1	6450.3	6127.8	6189.4	7083.8	8130.2	8138.0	7609.5	5333.1
32.5°	7629.2	7668.6	7533.5	7231.9	6894.8	6721.8	7365.7	8659.9	8704.5	8258.6	5636.0
35°	8589.1	8594.4	8404.2	8088.2	7700.1	7433.8	7818.0	9254.0	9360.2	9062.5	6020.2
37.5°	9530.7	9568.7	9412.6	8914.4	8557.7	8256.0	8490.8	9996.2	10147.0	10044.7	6522.5
40°	10228.3	10308.2	10286.0	9748.3	9410.0	9194.9	9326.1	10878.7	11070.1	11188.2	7155.9
42.5°	10666.2	10726.6	10828.9	10505.0	10198.1	10233.5	10312.1	11906.8	12142.8	12491.6	7883.6
45°	11168.5	11197.3	11282.5	11139.6	10932.5	11289.1	11358.6	13064.7	13312.5	13893.4	8691.4
47.5°	11782.1	11850.3	11874.0	11742.8	11648.4	12222.7	12367.0	14117.6	14465.1	15394.8	9546.4
50°	12563.7	12582.0	12622.7	12537.5	12443.1	13025.3	13271.9	15223.1	15539.1	16901.5	10389.6
52.5°	13328.2	13393.8	13535.4	13481.6	13443.6	13708.5	14078.3	16219.6	16572.4	18157.8	11231.4
55°	13548.5	13604.9	14094.0	14428.4	14737.8	14550.3	14849.3	17112.6	17494.3	19280.2	12041.8
57.5°	12668.6	12782.7	13629.8	14500.6	15784.3	15859.0	15908.9	18029.3	18371.5	20140.5	12885.0
60°	10444.6	10467.0	11856.9	13350.5	15611.2	17001.2	17456.2	19014.1	19301.2	20941.7	13894.7
62.5°	6643.1	6870.0	8395.0	10503.7	13780.6	16836.0	19327.5	20503.7	20608.6	21902.9	15342.4
65°	3164.2	3311.1	4409.9	6489.7	9981.7	14720.8	20619.2	23198.5	23245.7	23808.2	17276.6
67.5°	1752.0	1822.8	2345.9	3493.3	5835.3	10410.5	20097.2	26390.2	26434.8	25754.2	18973.4
69°	1370.3	1430.7	1842.4	2633.1	3956.3	7482.4	18186.6	27325.2	27457.6	26311.6	19033.8
70°	1163.1	1222.2	1586.7	2224.0	3181.2	5781.6	16188.2	27093.0	27233.4	26259.1	18583.9
72.5°	712.1	746.2	1056.9	1565.7	2132.2	2908.5	9983.0	22912.6	23150.0	24087.6	15971.8
75°	479.9	498.3	660.9	1080.5	1525.0	1497.6	5186.2	16150.1	16664.2	18737.3	11796.6
77.5°	343.6	360.6	443.2	698.9	1068.8	988.7	2348.5	10036.8	10147.0	11238.0	6433.3
80°	195.3	211.1	313.4	415.7	725.1	659.6	933.7	4794.2	4849.3	4819.1	2148.0
82.5°	102.3	115.4	171.8	274.1	465.5	431.4	388.2	1605.1	1612.9	1341.5	470.8
85°	19.7	23.6	85.2	187.5	240.0	187.5	158.6	376.3	384.2	339.6	116.7
87.5°	0.0	1.3	34.1	41.9	47.2	48.5	51.1	73.4	78.7	106.2	31.5
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°	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9
2.5°	3156.4	3109.1	3018.7	2913.8	2832.5	2752.4	2689.5	2624.0	2600.3	2588.5	2587.2
5°	3187.8	3088.2	2896.7	2700.0	2538.7	2386.6	2277.7	2174.1	2125.6	2103.3	2094.2
7.5°	3240.3	3080.3	2772.1	2471.9	2239.7	2049.6	1898.8	1786.1	1729.6	1706.0	1696.8
10°	3301.9	3069.8	2626.6	2230.6	1934.2	1737.5	1588.0	1476.5	1414.9	1388.7	1375.5
12.5°	3374.0	3051.5	2458.7	1986.6	1673.2	1476.5	1295.6	1157.9	1087.1	1056.9	1042.5
15°	3463.2	3033.0	2283.0	1757.2	1443.7	1203.7	1005.8	912.6	898.3	893.0	894.3
17.5°	3551.1	3004.2	2091.5	1530.3	1202.4	940.2	839.2	834.0	836.6	836.6	836.6
20°	3629.7	2938.7	1883.0	1336.2	973.0	793.3	772.3	763.2	756.6	751.4	744.9
22.5°	3691.4	2850.8	1682.4	1143.5	794.7	726.5	693.7	664.8	641.3	625.5	617.6
25°	3733.3	2734.1	1498.9	958.6	714.7	660.9	601.9	553.3	516.6	494.4	485.1
27.5°	3764.8	2608.2	1334.9	802.5	659.6	584.8	507.5	449.8	411.7	392.1	384.2
30°	3787.1	2465.2	1190.7	705.5	598.0	504.9	422.3	365.8	338.3	327.8	322.6
32.5°	3808.1	2306.6	1054.3	659.6	540.3	431.4	354.1	310.8	293.7	280.6	276.7
35°	3860.5	2159.7	924.5	611.1	481.2	368.5	304.2	272.8	255.7	247.9	245.2
37.5°	3985.1	2050.9	799.9	561.3	422.3	318.7	266.2	243.9	228.1	220.3	217.7
40°	4185.7	1995.8	695.0	507.5	364.5	280.6	241.3	220.3	203.3	191.4	188.8
42.5°	4480.7	2003.7	621.5	453.8	318.7	250.5	217.7	192.7	174.4	164.0	161.3
45°	4838.7	2061.4	570.4	401.2	280.6	226.8	191.4	165.3	148.2	139.0	136.4
47.5°	5226.9	2154.5	528.5	354.1	250.5	204.6	165.3	137.7	123.2	115.4	114.1
50°	5636.0	2244.9	485.1	308.2	224.2	182.3	139.0	114.1	102.3	95.8	93.1
52.5°	6050.4	2349.9	445.8	266.2	202.0	156.0	115.4	93.1	83.9	78.7	76.0
55°	6496.2	2428.5	407.8	233.4	179.7	132.5	95.8	77.4	69.5	63.0	61.7
57.5°	7020.8	2550.5	368.5	202.0	153.4	110.1	78.7	61.7	55.1	48.5	47.2
60°	7728.9	2693.5	326.5	178.3	125.9	90.5	64.3	49.8	41.9	36.7	35.4
62.5°	8662.6	2852.1	274.1	156.0	102.3	73.4	51.1	39.3	30.2	23.6	23.6
65°	9846.6	3110.4	224.2	131.2	83.9	60.4	39.3	28.9	17.0	10.5	10.5
67.5°	10537.8	3155.1	181.0	107.5	68.2	51.1	32.8	19.7	5.2	1.3	0.0
69°	10316.1	2896.7	153.4	91.8	59.0	48.5	30.2	14.4	2.6	0.0	0.0
70°	9899.1	2648.9	135.1	81.3	53.8	45.9	28.9	10.5	2.6	0.0	0.0
72.5°	8180.0	1885.6	102.3	60.4	39.3	40.6	26.3	6.5	2.6	0.0	0.0
75°	5958.6	1146.1	73.4	41.9	24.9	30.2	18.4	2.6	1.3	0.0	0.0
77.5°	3315.0	540.3	45.9	23.6	15.7	18.4	9.2	0.0	0.0	0.0	0.0
80°	1076.6	146.9	21.0	13.1	9.2	10.5	3.9	0.0	0.0	0.0	0.0
82.5°	199.4	41.9	11.8	6.5	2.6	2.6	0.0	0.0	0.0	0.0	0.0
85°	43.3	17.0	6.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.4	5.2	1.3	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)