

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: P383258

Luminaire Tested: **GLEON-SA5D-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383258
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-SA5D-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA 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: 25698.6 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

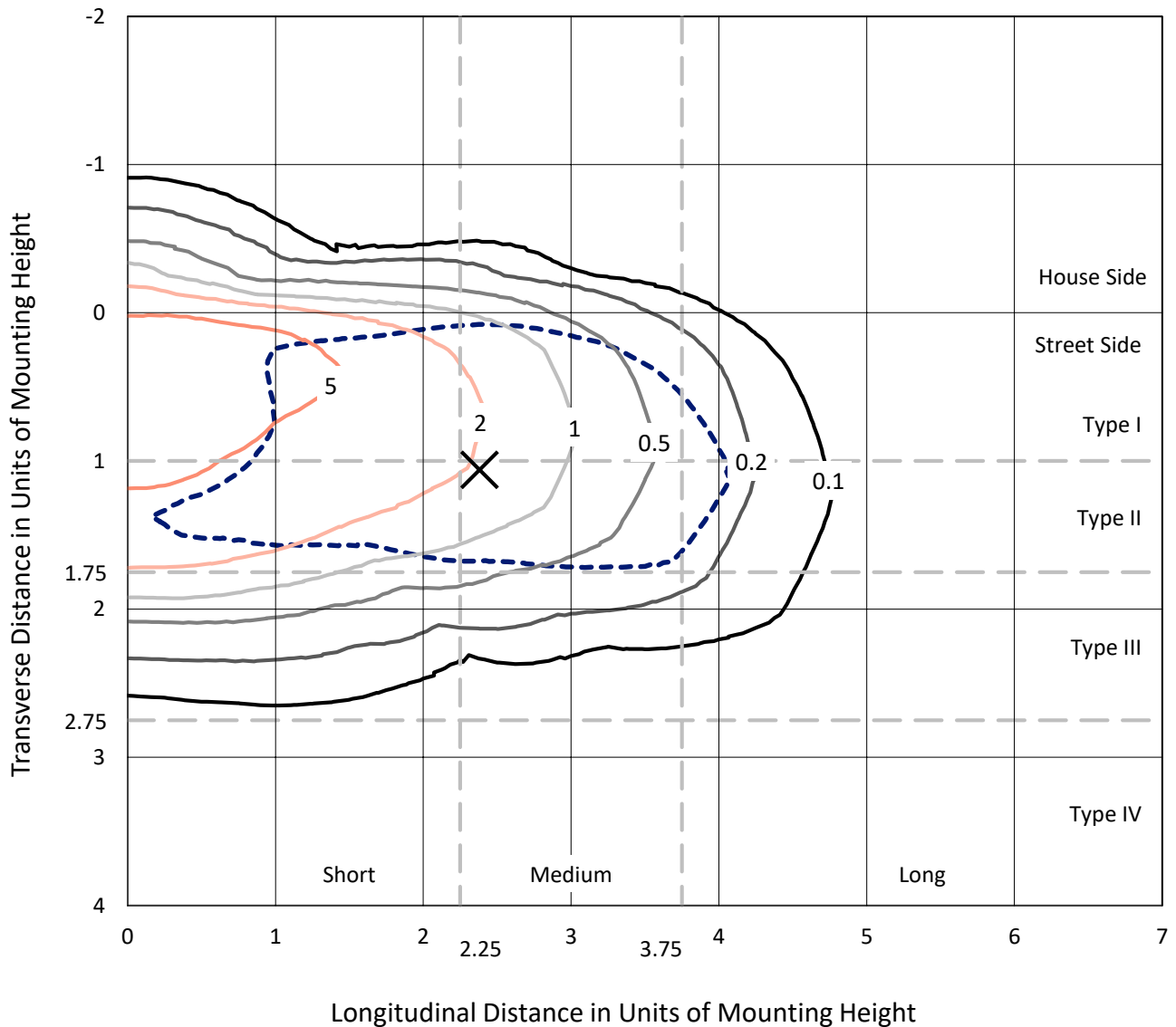
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383258
 CATALOG NUMBER: GLEON-SA5D-735-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

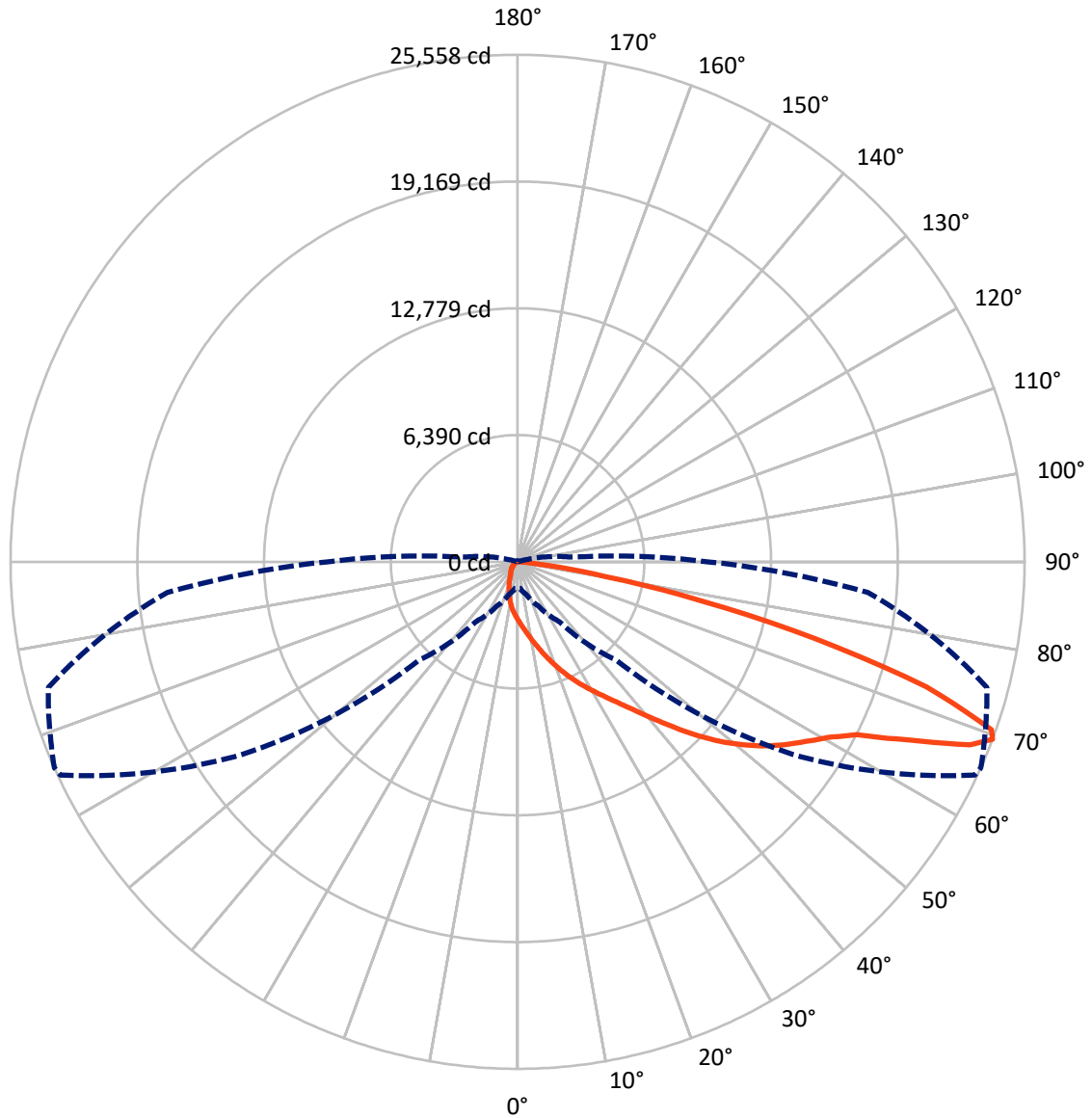
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P383258
CATALOG NUMBER: GLEON-SA5D-735-U-T2-HSS

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	1541.6	0.0	1541.6
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	24157.1	0.0	24157.1
	% Fixture	94.0	0.0	94.0
Total	Lumens	25698.6	0.0	25698.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.7	1.1
10°-20°	841.4	3.3
20°-30°	1465.1	5.7
30°-40°	2570.6	10.0
40°-50°	4302.7	16.7
50°-60°	6324.6	24.6
60°-70°	6493.8	25.3
70°-80°	3205.8	12.5
80°-90°	212.0	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°	25698.6	100.0
0°-180°	25698.6	100.0

Coefficient of Utilization

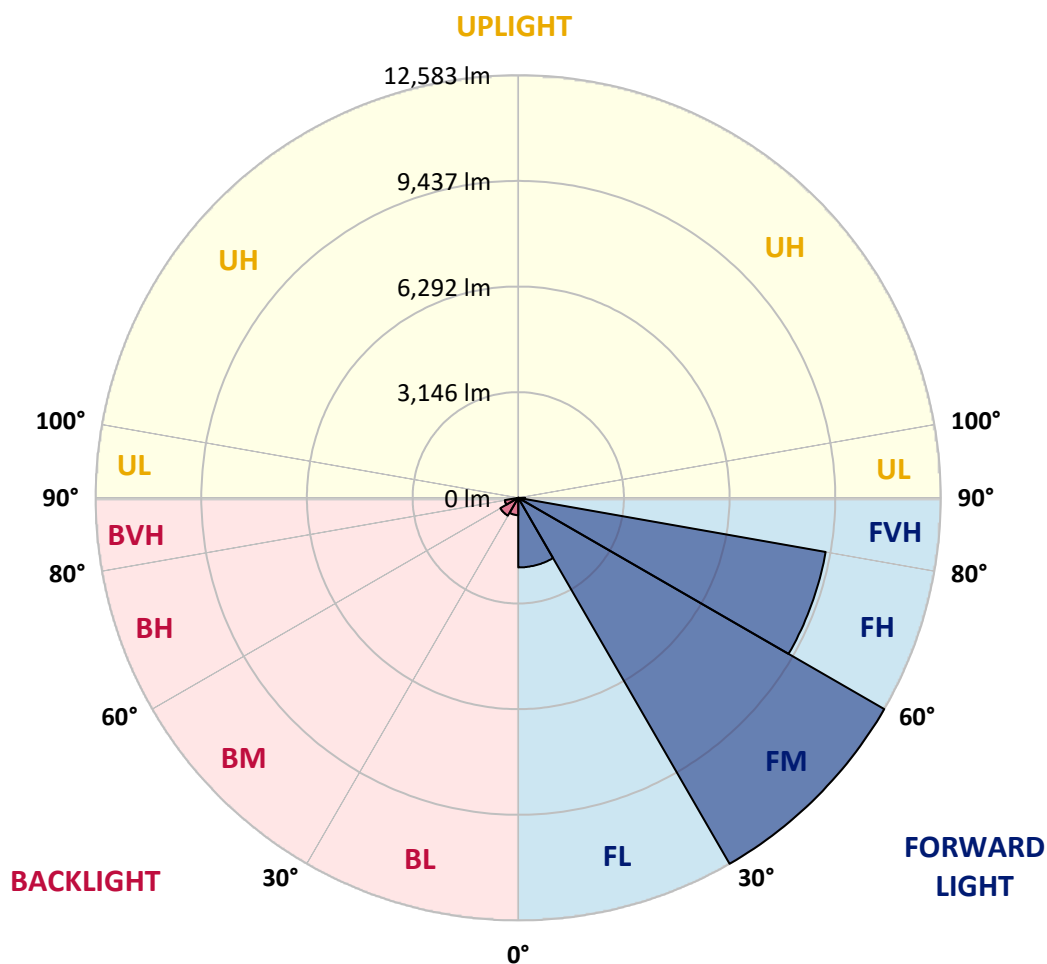


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2073.6	8.1			
FM (30°-60°)	12583.3	49.0			
FH (60°-80°)	9293.3	36.2			G4/12000
FVH (80°-90°)	206.9	0.8			G2/225
BL (0°-30°)	515.6	2.0	B2/1000		
BM (30°-60°)	614.6	2.4	B1/1000		
BH (60°-80°)	406.2	1.6	B1/500		G1/500
BVH (80°-90°)	5.1	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





REPORT NUMBER: P383258

CATALOG NUMBER: GLEON-SA5D-735-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2924.6	2924.6	2924.6	2924.6	2924.6	2924.6	2924.6	2924.6	2924.6	2924.6	2924.6
2.5°	3442.2	3427.4	3421.4	3394.6	3348.2	3312.8	3244.4	3165.0	3150.4	3073.5	2979.6
5°	3888.8	3876.6	3868.2	3830.2	3782.6	3693.6	3569.0	3421.4	3393.3	3246.8	3058.8
7.5°	4200.2	4222.1	4222.1	4197.6	4137.8	4070.8	3918.2	3716.8	3681.4	3456.8	3165.0
10°	4382.0	4408.8	4429.6	4450.4	4441.8	4415.0	4271.0	4043.8	4001.2	3703.4	3288.4
12.5°	4399.0	4426.0	4484.6	4571.2	4655.4	4716.4	4626.2	4406.4	4357.6	3989.0	3434.8
15°	4303.8	4332.0	4422.2	4590.8	4794.6	4972.8	5002.0	4808.0	4758.0	4329.5	3617.9
17.5°	4137.8	4156.2	4285.6	4518.7	4838.5	5165.6	5342.6	5238.8	5192.4	4718.8	3821.8
20°	4014.6	4028.0	4141.6	4391.8	4811.6	5286.4	5664.8	5696.6	5647.8	5136.4	4042.6
22.5°	4225.8	4250.2	4253.8	4372.2	4738.4	5346.2	5948.0	6147.0	6110.4	5579.4	4260.0
25°	4803.1	4831.2	4738.4	4665.2	4800.6	5373.2	6191.0	6608.4	6579.1	6056.6	4478.4
27.5°	5566.0	5595.2	5475.6	5257.2	5126.6	5474.4	6407.0	7077.1	7075.8	6562.0	4714.0
30°	6315.4	6344.8	6222.6	6004.2	5704.0	5761.2	6593.8	7567.8	7575.1	7083.2	4964.2
32.5°	7101.6	7138.2	7012.4	6731.6	6418.0	6256.8	6856.2	8060.9	8102.4	7687.4	5246.2
35°	7995.0	7999.9	7822.9	7528.8	7167.4	6919.6	7277.2	8613.8	8712.8	8435.6	5603.8
37.5°	8871.4	8906.8	8761.6	8297.7	7965.7	7685.0	7903.4	9304.7	9445.1	9349.9	6071.4
40°	9520.8	9595.2	9574.4	9074.0	8759.1	8559.0	8681.0	10126.2	10304.4	10414.2	6660.8
42.5°	9928.4	9984.6	10079.8	9778.3	9492.7	9525.6	9598.9	11083.2	11302.8	11627.6	7338.3
45°	10396.0	10422.8	10502.2	10369.1	10176.2	10508.2	10573.0	12161.0	12391.6	12932.4	8090.2
47.5°	10967.2	11030.6	11052.6	10930.6	10842.7	11377.3	11511.6	13141.1	13464.6	14330.0	8886.0
50°	11694.6	11711.8	11749.6	11670.2	11582.4	12124.4	12353.8	14170.1	14464.2	15732.4	9670.9
52.5°	12406.3	12467.3	12599.2	12549.1	12513.7	12760.2	13104.5	15097.8	15426.1	16901.8	10454.6
55°	12611.4	12663.8	13119.2	13430.4	13718.4	13543.9	13822.2	15929.0	16284.2	17946.6	11208.8
57.5°	11792.4	11898.5	12687.0	13497.5	14692.5	14762.0	14808.4	16782.2	17100.8	18747.4	11993.8
60°	9722.2	9742.9	11036.8	12427.0	14531.4	15825.2	16248.8	17698.8	17966.2	19493.2	12933.6
62.5°	6183.6	6394.8	7814.4	9777.1	12827.4	15671.4	17990.6	19085.5	19183.1	20387.9	14281.2
65°	2945.4	3082.0	4105.0	6040.8	9291.3	13702.6	19192.9	21593.8	21637.8	22161.4	16081.6
67.5°	1630.8	1696.6	2183.6	3251.8	5431.8	9690.4	18707.1	24564.8	24606.3	23972.8	17661.0
69°	1275.6	1331.6	1715.0	2451.0	3682.6	6964.8	16928.6	25435.1	25558.4	24491.6	17717.2
70°	1082.6	1137.6	1477.0	2070.2	2961.2	5381.6	15068.4	25219.0	25349.6	24442.7	17298.5
72.5°	662.8	694.6	983.8	1457.4	1984.8	2707.4	9292.5	21327.7	21548.7	22421.4	14867.0
75°	446.8	463.8	615.2	1005.8	1419.6	1394.0	4827.6	15033.0	15511.5	17441.3	10980.6
77.5°	319.8	335.6	412.6	650.6	994.8	920.4	2186.2	9342.6	9445.1	10460.6	5988.4
80°	181.8	196.6	291.8	387.0	675.0	614.0	869.0	4462.6	4513.8	4485.8	1999.4
82.5°	95.2	107.4	159.9	255.2	433.4	401.6	361.3	1494.0	1501.4	1248.6	438.2
85°	18.4	22.0	79.4	174.6	223.4	174.6	147.7	350.4	357.6	316.2	108.6
87.5°	0.0	1.2	31.8	39.0	44.0	45.2	47.6	68.4	73.2	98.8	29.3
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°	2924.6	2924.6	2924.6	2924.6	2924.6	2924.6	2924.6	2924.6	2924.6	2924.6	2924.6
2.5°	2938.0	2894.0	2809.8	2712.2	2636.6	2562.0	2503.4	2442.4	2420.4	2409.4	2408.2
5°	2967.3	2874.6	2696.4	2513.2	2363.1	2221.6	2120.2	2023.8	1978.6	1957.8	1949.4
7.5°	3016.2	2867.2	2580.4	2300.8	2084.8	1907.8	1767.4	1662.4	1610.0	1588.0	1579.4
10°	3073.5	2857.4	2444.8	2076.2	1800.4	1617.4	1478.2	1374.4	1317.0	1292.6	1280.4
12.5°	3140.6	2840.4	2288.6	1849.2	1557.5	1374.4	1206.0	1077.8	1011.8	983.8	970.4
15°	3223.6	2823.2	2125.0	1635.6	1343.9	1120.6	936.2	849.6	836.2	831.2	832.4
17.5°	3305.4	2796.4	1946.8	1424.4	1119.3	875.2	781.2	776.4	778.8	778.8	778.8
20°	3378.6	2735.4	1752.8	1243.8	905.7	738.4	719.0	710.4	704.2	699.4	693.4
22.5°	3436.0	2653.6	1566.0	1064.4	739.6	676.2	645.7	618.8	596.8	582.2	575.0
25°	3475.0	2545.0	1395.2	892.2	665.2	615.2	560.2	515.1	481.0	460.2	451.6
27.5°	3504.4	2427.8	1242.6	747.0	614.0	544.4	472.4	418.6	383.2	365.0	357.6
30°	3525.2	2294.8	1108.4	656.6	556.6	470.0	393.0	340.6	315.0	305.2	300.2
32.5°	3544.6	2147.0	981.4	614.0	502.8	401.6	329.6	289.2	273.4	261.2	257.6
35°	3593.4	2010.4	860.6	568.8	448.0	343.0	283.2	253.8	238.0	230.7	228.2
37.5°	3709.4	1909.0	744.6	522.4	393.0	296.6	247.8	227.0	212.4	205.0	202.6
40°	3896.2	1857.8	647.0	472.4	339.4	261.2	224.6	205.0	189.2	178.2	175.8
42.5°	4170.8	1865.1	578.6	422.4	296.6	233.2	202.6	179.4	162.4	152.6	150.2
45°	4504.0	1918.8	531.0	373.6	261.2	211.2	178.2	153.8	138.0	129.4	127.0
47.5°	4865.4	2005.4	492.0	329.6	233.2	190.4	153.8	128.2	114.8	107.4	106.2
50°	5246.2	2089.6	451.6	286.8	208.8	169.6	129.4	106.2	95.2	89.1	86.6
52.5°	5631.9	2187.4	415.0	247.8	188.0	145.2	107.4	86.6	78.2	73.2	70.8
55°	6046.9	2260.6	379.6	217.2	167.2	123.2	89.1	72.0	64.6	58.6	57.4
57.5°	6535.2	2374.0	343.0	188.0	142.8	102.6	73.2	57.4	51.2	45.2	44.0
60°	7194.2	2507.2	304.0	166.0	117.2	84.2	59.8	46.4	39.0	34.2	33.0
62.5°	8063.4	2654.8	255.2	145.2	95.2	68.4	47.6	36.6	28.0	22.0	22.0
65°	9165.6	2895.2	208.8	122.0	78.2	56.2	36.6	26.8	15.8	9.8	9.8
67.5°	9808.8	2936.8	168.4	100.0	63.4	47.6	30.6	18.4	4.8	1.2	0.0
69°	9602.6	2696.4	142.8	85.4	55.0	45.2	28.0	13.4	2.4	0.0	0.0
70°	9214.4	2465.6	125.8	75.6	50.0	42.8	26.8	9.8	2.4	0.0	0.0
72.5°	7614.2	1755.2	95.2	56.2	36.6	37.8	24.4	6.1	2.4	0.0	0.0
75°	5546.4	1066.8	68.4	39.0	23.2	28.0	17.0	2.4	1.2	0.0	0.0
77.5°	3085.7	502.8	42.8	22.0	14.6	17.0	8.6	0.0	0.0	0.0	0.0
80°	1002.2	136.8	19.6	12.2	8.6	9.8	3.6	0.0	0.0	0.0	0.0
82.5°	185.6	39.0	11.0	6.1	2.4	2.4	0.0	0.0	0.0	0.0	0.0
85°	40.2	15.8	6.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.4	4.8	1.2	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)