

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: P383370

Luminaire Tested: **GLEON-SA6D-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383370
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-SA6D-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 30754.1 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

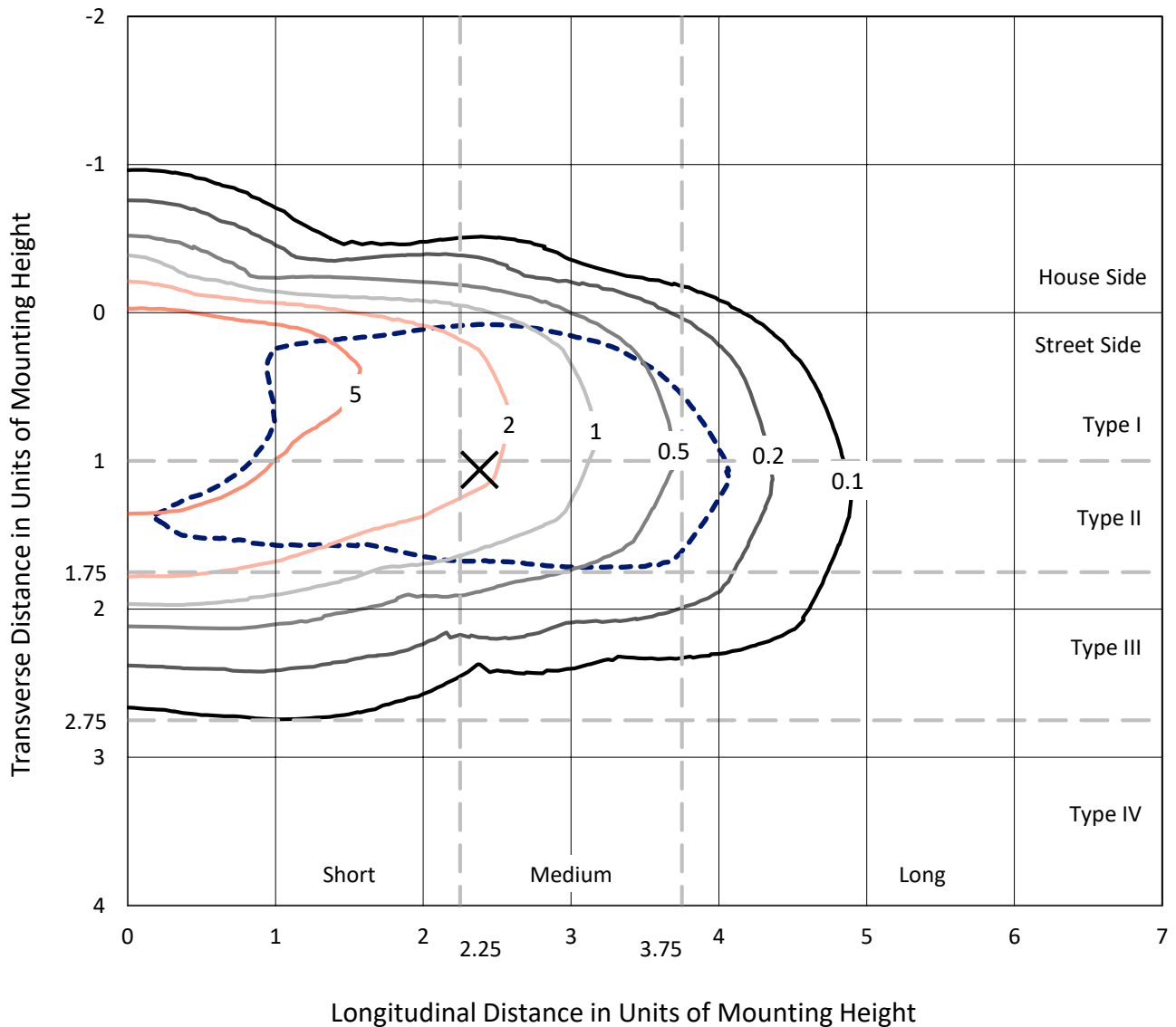
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

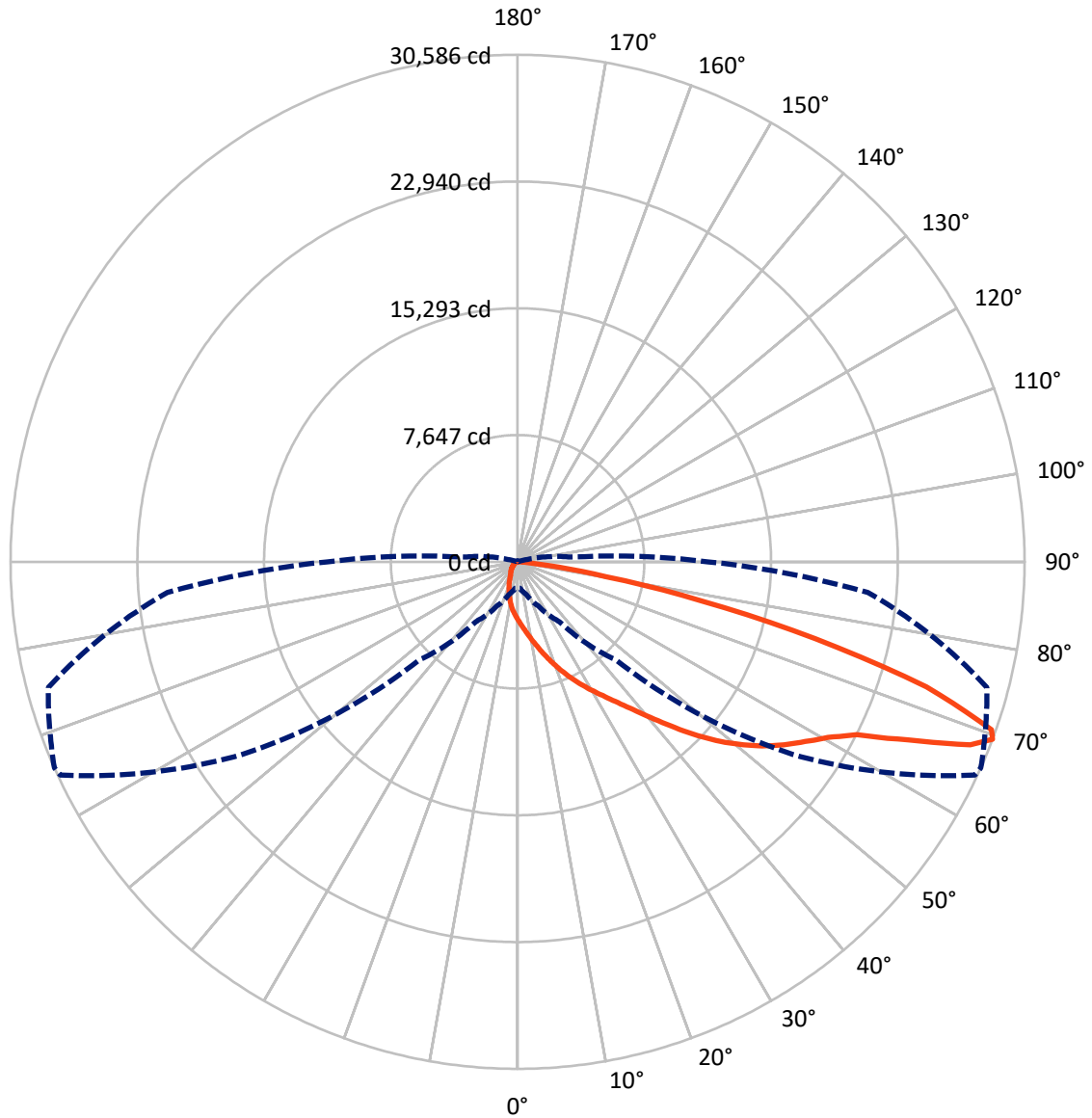
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	1844.8	0.0	1844.8
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	28909.3	0.0	28909.3
	% Fixture	94.0	0.0	94.0
Total	Lumens	30754.1	0.0	30754.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.3	1.1
10°-20°	1006.9	3.3
20°-30°	1753.4	5.7
30°-40°	3076.2	10.0
40°-50°	5149.2	16.7
50°-60°	7568.8	24.6
60°-70°	7771.2	25.3
70°-80°	3836.4	12.5
80°-90°	253.7	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°	30754.1	100.0
0°-180°	30754.1	100.0

Coefficient of Utilization

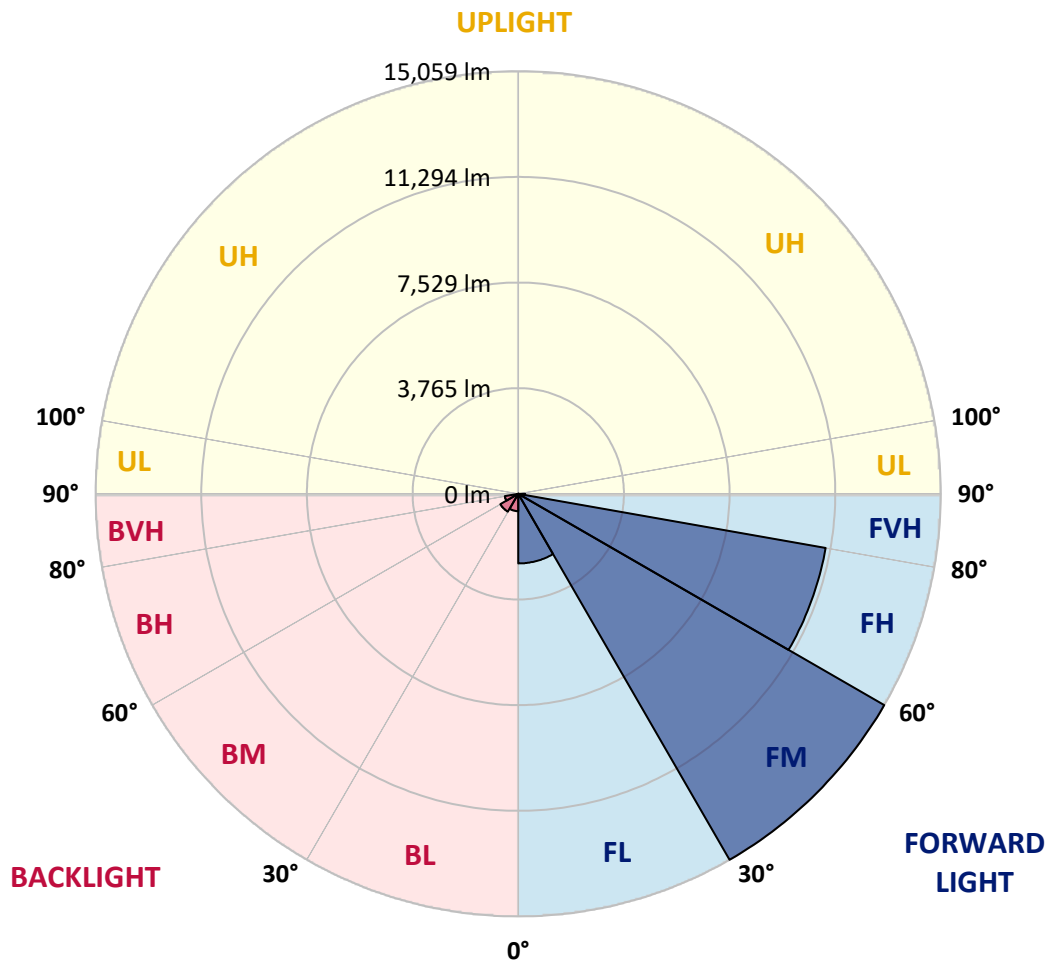


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2481.6	8.1			
FM (30°-60°)	15058.7	49.0			
FH (60°-80°)	11121.5	36.2			G4/12000
FVH (80°-90°)	247.5	0.8			G3/500
BL (0°-30°)	617.0	2.0	B2/1000		
BM (30°-60°)	735.5	2.4	B1/1000		
BH (60°-80°)	486.2	1.6	B1/500		G1/500
BVH (80°-90°)	6.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3499.9	3499.9	3499.9	3499.9	3499.9	3499.9	3499.9	3499.9	3499.9	3499.9	3499.9
2.5°	4119.3	4101.7	4094.4	4062.3	4006.8	3964.4	3882.6	3787.7	3770.2	3678.1	3565.7
5°	4653.9	4639.3	4629.0	4583.8	4526.9	4420.2	4271.1	4094.4	4060.8	3885.6	3660.6
7.5°	5026.4	5052.7	5052.7	5023.5	4951.9	4871.5	4688.9	4448.0	4405.6	4136.8	3787.7
10°	5244.1	5276.2	5301.0	5325.8	5315.6	5283.5	5111.1	4839.4	4788.2	4431.8	3935.2
12.5°	5264.5	5296.6	5366.7	5470.4	5571.2	5644.2	5536.2	5273.2	5214.8	4773.7	4110.5
15°	5150.5	5184.2	5292.2	5493.8	5737.8	5951.0	5986.1	5753.8	5693.9	5181.2	4329.6
17.5°	4951.9	4973.8	5128.6	5407.6	5790.3	6181.8	6393.6	6269.5	6214.0	5647.2	4573.5
20°	4804.4	4820.4	4956.3	5255.7	5758.2	6326.4	6779.2	6817.3	6758.8	6146.7	4838.0
22.5°	5057.1	5086.2	5090.6	5232.3	5670.6	6398.1	7118.1	7356.2	7312.5	6677.1	5098.0
25°	5748.0	5781.6	5670.6	5583.0	5745.0	6430.2	7408.9	7908.4	7873.3	7248.2	5359.5
27.5°	6660.9	6696.0	6552.9	6291.4	6135.1	6551.4	7667.4	8469.4	8467.9	7852.9	5641.4
30°	7557.8	7592.9	7446.8	7185.3	6826.0	6894.7	7890.9	9056.5	9065.4	8476.6	5940.8
32.5°	8498.5	8542.4	8391.9	8055.9	7680.5	7487.7	8205.0	9646.6	9696.4	9199.7	6278.3
35°	9567.8	9573.6	9361.9	9009.8	8577.4	8280.9	8708.9	10308.4	10426.7	10095.1	6706.2
37.5°	10616.6	10659.0	10485.1	9930.0	9532.7	9196.8	9458.3	11135.2	11303.1	11189.2	7265.7
40°	11393.8	11482.8	11458.0	10859.1	10482.2	10242.6	10388.7	12118.2	12331.5	12463.0	7971.3
42.5°	11881.6	11948.8	12062.7	11701.9	11360.1	11399.5	11487.2	13263.5	13526.4	13914.9	8781.9
45°	12441.1	12473.2	12568.2	12409.0	12178.1	12575.4	12652.8	14553.3	14829.4	15476.5	9681.8
47.5°	13124.7	13200.7	13227.0	13080.9	12975.7	13615.5	13776.2	15726.3	16113.4	17149.0	10634.2
50°	13995.3	14015.7	14061.1	13966.0	13860.9	14509.5	14784.1	16957.6	17309.6	18827.4	11573.4
52.5°	14846.9	14919.9	15077.7	15017.8	14975.5	15270.5	15682.4	18067.8	18460.8	20226.8	12511.2
55°	15092.3	15155.1	15699.9	16072.5	16417.2	16208.3	16541.3	19062.5	19487.6	21477.2	13413.9
57.5°	14112.1	14239.3	15182.8	16152.8	17582.9	17666.1	17721.6	20083.6	20464.9	22435.4	14353.2
60°	11634.8	11659.5	13207.9	14871.7	17390.0	18938.4	19445.3	21180.6	21500.5	23327.9	15477.9
62.5°	7400.0	7652.8	9351.6	11700.5	15350.9	18754.4	21529.7	22840.1	22956.9	24398.6	17090.5
65°	3524.8	3688.4	4912.4	7229.2	11119.1	16398.2	22968.6	25841.9	25894.4	26521.1	19245.1
67.5°	1951.5	2030.4	2613.3	3891.4	6500.2	11596.7	22387.2	29397.2	29447.0	28688.8	21135.3
69°	1526.4	1593.7	2052.3	2933.2	4407.1	8334.9	20258.9	30438.8	30586.2	29309.7	21202.6
70°	1295.7	1361.4	1767.5	2477.4	3543.7	6440.3	18032.7	30180.2	30336.5	29251.2	20701.5
72.5°	793.2	831.1	1177.4	1744.1	2375.2	3239.9	11120.5	25523.4	25787.8	26832.2	17791.7
75°	534.6	555.1	736.2	1203.7	1698.9	1668.1	5777.2	17990.4	18563.0	20872.4	13140.8
77.5°	382.7	401.7	493.7	778.6	1190.5	1101.4	2616.2	11180.4	11303.1	12518.5	7166.4
80°	217.6	235.2	349.1	463.1	807.7	734.7	1040.1	5340.5	5401.8	5368.2	2392.7
82.5°	113.9	128.6	191.3	305.3	518.6	480.6	432.3	1787.9	1796.7	1494.3	524.4
85°	21.9	26.3	94.9	208.9	267.4	208.9	176.7	419.2	428.0	378.3	130.0
87.5°	0.0	1.5	38.0	46.8	52.6	54.0	57.0	81.8	87.7	118.3	35.0
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°	3499.9	3499.9	3499.9	3499.9	3499.9	3499.9	3499.9	3499.9	3499.9	3499.9	3499.9
2.5°	3515.9	3463.4	3362.6	3245.8	3155.2	3066.1	2996.0	2922.9	2896.6	2883.5	2882.0
5°	3551.1	3440.0	3226.8	3007.7	2828.0	2658.5	2537.3	2421.9	2367.8	2343.0	2332.8
7.5°	3609.5	3431.3	3088.0	2753.5	2495.0	2283.1	2115.2	1989.5	1926.7	1900.5	1890.2
10°	3678.1	3419.6	2925.8	2484.7	2154.6	1935.5	1768.9	1644.7	1576.1	1546.9	1532.3
12.5°	3758.4	3399.1	2738.8	2213.0	1863.9	1644.7	1443.2	1289.8	1210.9	1177.4	1161.3
15°	3857.8	3378.6	2543.1	1957.4	1608.2	1341.0	1120.4	1016.7	1000.6	994.8	996.2
17.5°	3955.6	3346.6	2329.9	1704.6	1339.5	1047.3	934.9	929.0	931.9	931.9	931.9
20°	4043.3	3273.5	2097.7	1488.5	1083.9	883.8	860.4	850.1	842.9	837.0	829.7
22.5°	4111.9	3175.6	1874.1	1273.8	885.2	809.2	772.7	740.6	714.3	696.8	688.0
25°	4158.7	3045.6	1669.6	1067.8	796.1	736.2	670.4	616.4	575.5	550.7	540.5
27.5°	4193.7	2905.4	1487.0	894.0	734.7	651.5	565.3	501.0	458.7	436.8	428.0
30°	4218.6	2746.2	1326.3	785.9	666.1	562.4	470.3	407.6	376.9	365.2	359.3
32.5°	4242.0	2569.4	1174.4	734.7	601.8	480.6	394.4	346.2	327.2	312.6	308.2
35°	4300.4	2405.8	1029.8	680.7	536.1	410.4	338.9	303.9	284.9	276.1	273.1
37.5°	4439.2	2284.6	891.0	625.2	470.3	354.9	296.5	271.7	254.1	245.4	242.5
40°	4662.7	2223.2	774.2	565.3	406.1	312.6	268.8	245.4	226.5	213.2	210.3
42.5°	4991.3	2232.0	692.4	505.5	354.9	279.0	242.5	214.7	194.3	182.6	179.7
45°	5390.1	2296.3	635.4	447.0	312.6	252.7	213.2	184.1	165.1	154.8	151.9
47.5°	5822.5	2399.9	588.6	394.4	279.0	227.9	184.1	153.3	137.3	128.6	127.1
50°	6278.3	2500.7	540.5	343.3	249.7	203.1	154.8	127.1	113.9	106.7	103.7
52.5°	6739.8	2617.6	496.6	296.5	225.0	173.8	128.6	103.7	93.5	87.7	84.7
55°	7236.4	2705.3	454.3	260.0	200.1	147.6	106.7	86.2	77.4	70.1	68.7
57.5°	7820.8	2841.1	410.4	225.0	170.9	122.7	87.7	68.7	61.4	54.0	52.6
60°	8609.5	3000.3	363.7	198.7	140.2	100.8	71.5	55.5	46.8	40.9	39.4
62.5°	9649.6	3177.1	305.3	173.8	113.9	81.8	57.0	43.8	33.6	26.3	26.3
65°	10968.6	3464.9	249.7	146.1	93.5	67.2	43.8	32.1	19.0	11.6	11.6
67.5°	11738.4	3514.5	201.6	119.8	75.9	57.0	36.5	21.9	5.9	1.5	0.0
69°	11491.6	3226.8	170.9	102.3	65.8	54.0	33.6	16.0	2.9	0.0	0.0
70°	11027.1	2950.7	150.4	90.5	59.9	51.1	32.1	11.6	2.9	0.0	0.0
72.5°	9112.0	2100.5	113.9	67.2	43.8	45.3	29.3	7.3	2.9	0.0	0.0
75°	6637.6	1276.7	81.8	46.8	27.8	33.6	20.5	2.9	1.5	0.0	0.0
77.5°	3692.7	601.8	51.1	26.3	17.5	20.5	10.2	0.0	0.0	0.0	0.0
80°	1199.3	163.6	23.4	14.6	10.2	11.6	4.4	0.0	0.0	0.0	0.0
82.5°	222.0	46.8	13.1	7.3	2.9	2.9	0.0	0.0	0.0	0.0	0.0
85°	48.2	19.0	7.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.0	5.9	1.5	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)