

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: P383540

Luminaire Tested: **GLEON-SA8B-735-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8B-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34437.5 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

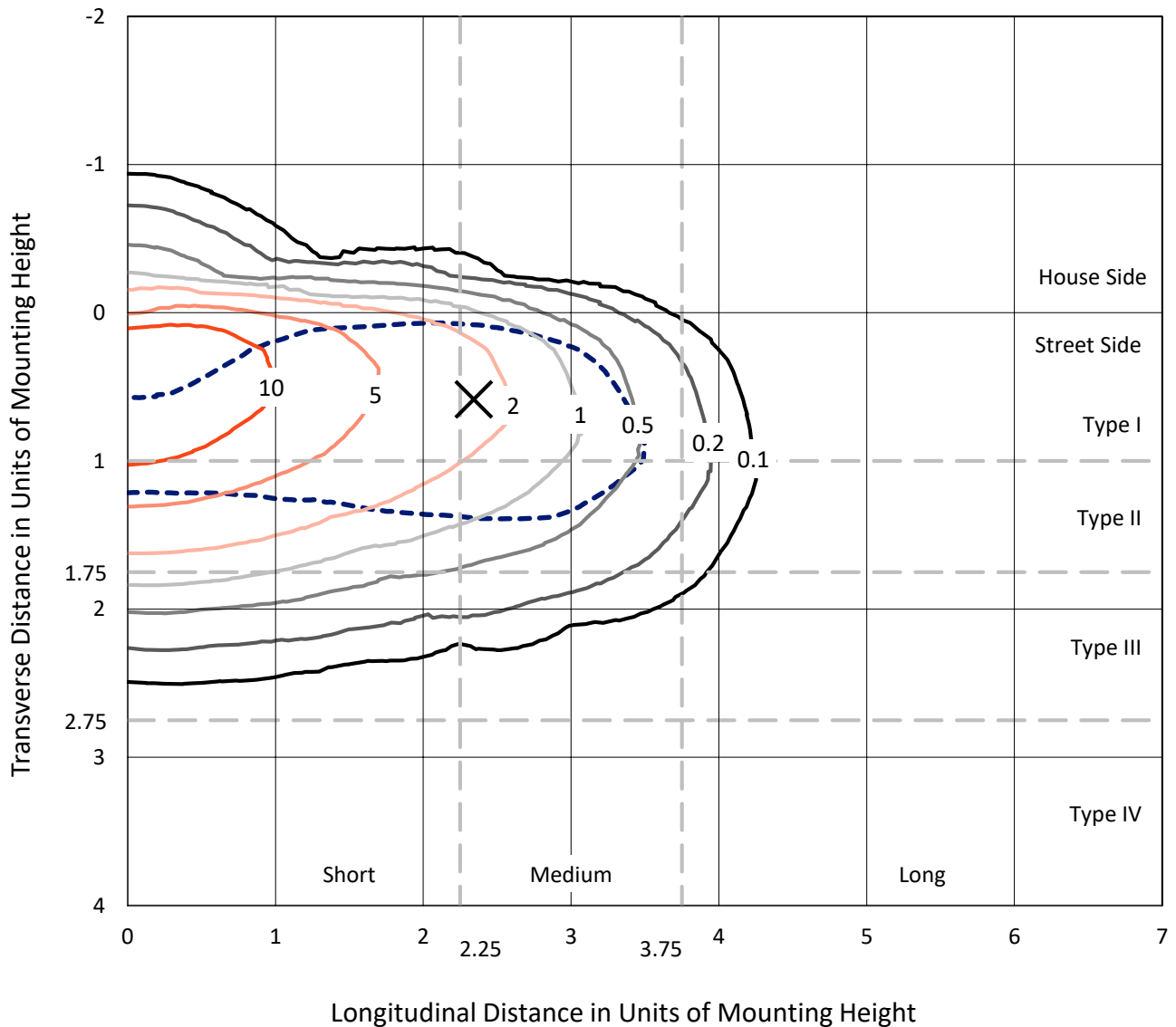
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383540
 CATALOG NUMBER: GLEON-SA8B-735-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

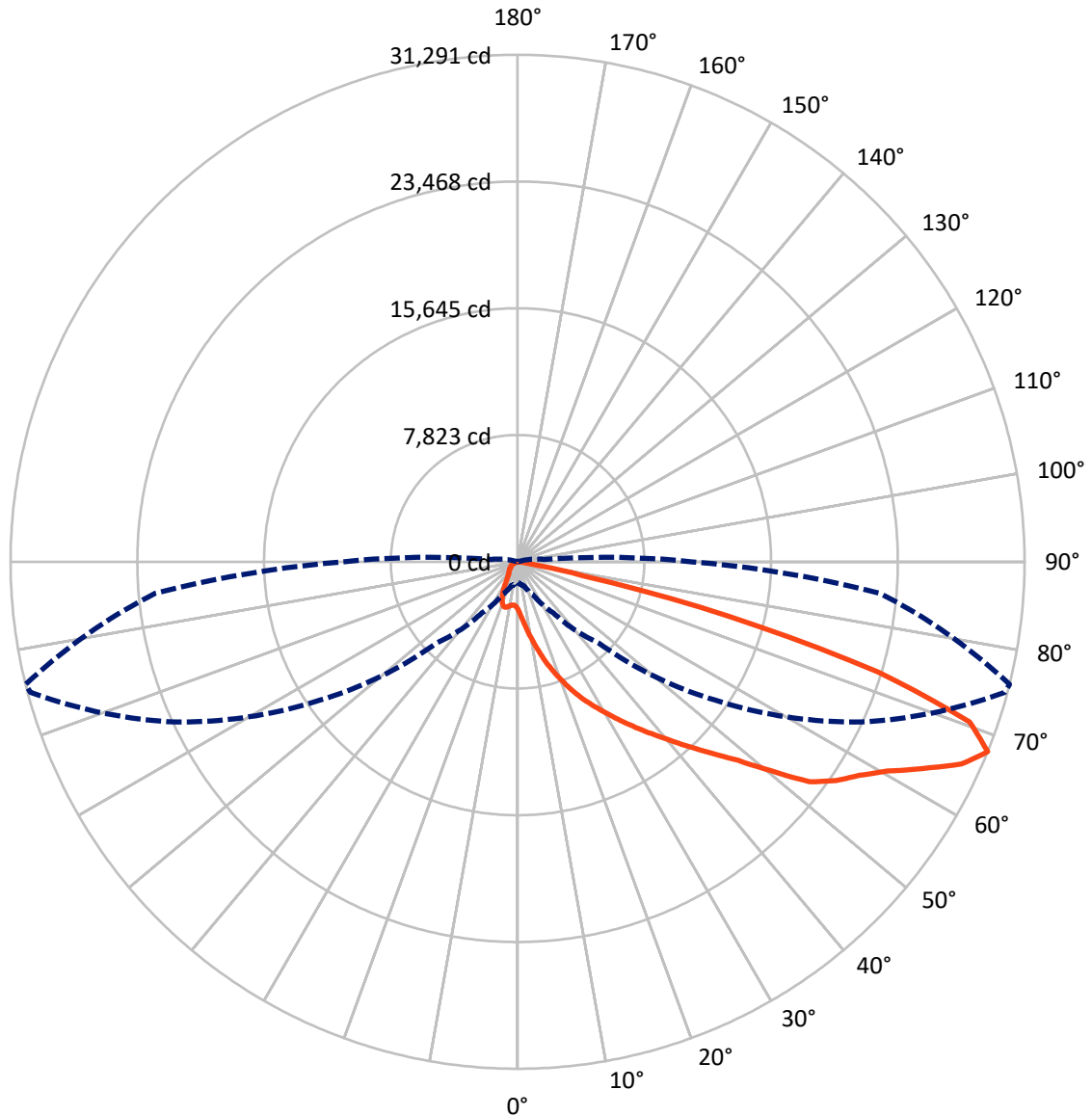
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P383540
CATALOG NUMBER: GLEON-SA8B-735-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1710.1	0.0	1710.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	32727.4	0.0	32727.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	34437.5	0.0	34437.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.3	1.1
10°-20°	1440.0	4.2
20°-30°	2929.9	8.5
30°-40°	5085.4	14.8
40°-50°	7185.1	20.9
50°-60°	8148.2	23.7
60°-70°	6758.2	19.6
70°-80°	2448.0	7.1
80°-90°	79.4	0.2
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°	34437.5	100.0
0°-180°	34437.5	100.0

Coefficient of Utilization

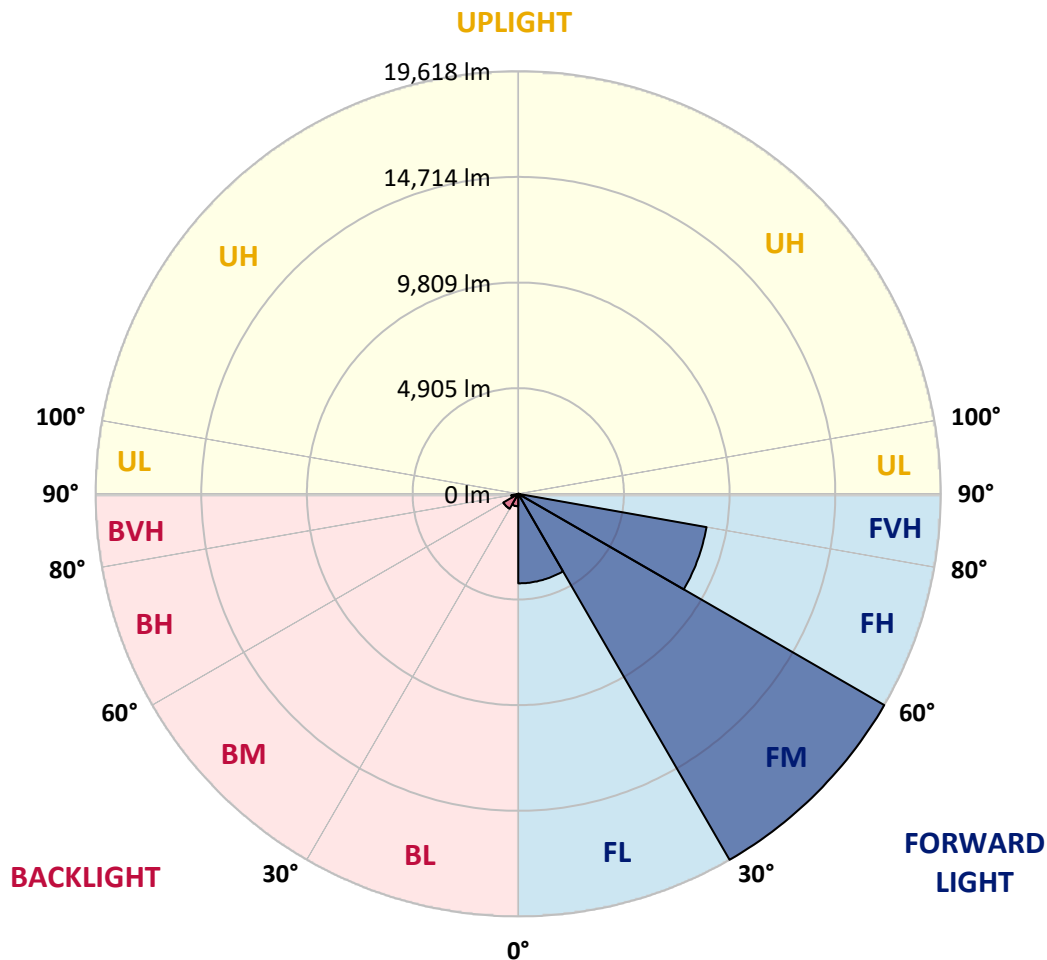


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4156.5	12.1			
FM	(30°-60°)	19618.3	57.0			
FH	(60°-80°)	8875.7	25.8			G4/12000
FVH	(80°-90°)	76.9	0.2			G1/100
BL	(0°-30°)	576.7	1.7	B2/1000		
BM	(30°-60°)	800.4	2.3	B1/1000		
BH	(60°-80°)	330.5	1.0	B1/500		G1/500
BVH	(80°-90°)	2.5	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





REPORT NUMBER: P383540

CATALOG NUMBER: GLEON-SA8B-735-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2921.3	2921.3	2921.3	2921.3	2921.3	2921.3	2921.3	2921.3	2921.3	2921.3	2921.3
2.5°	4360.9	4262.8	4285.4	4222.0	4107.3	3871.9	3671.2	3481.1	3259.3	3251.8	3069.2
5°	5880.3	5797.3	5786.8	5658.5	5450.3	5050.4	4661.1	4217.5	3722.6	3686.3	3298.5
7.5°	7259.5	7193.0	7168.9	7016.5	6628.7	6239.4	5732.5	5080.6	4306.5	4240.1	3607.9
10°	8318.7	8287.0	8293.1	8184.5	7852.5	7490.3	6824.9	5993.5	4968.9	4866.3	3979.0
12.5°	9121.5	9129.1	9183.4	9117.0	8931.4	8662.7	7952.1	6966.8	5702.3	5561.9	4403.1
15°	9711.5	9749.2	9848.8	9931.8	9918.2	9685.9	9034.0	7955.1	6480.9	6325.5	4875.3
17.5°	10093.2	10135.5	10280.4	10464.4	10633.4	10579.1	10078.1	8908.8	7268.5	7089.0	5380.9
20°	10428.2	10478.0	10633.4	10876.4	11191.7	11259.6	10930.7	9833.7	8054.7	7835.9	5902.9
22.5°	11154.1	11152.5	11247.6	11389.4	11689.7	11864.7	11656.5	10692.3	8831.8	8604.0	6435.6
25°	12466.8	12417.0	12383.8	12272.1	12338.5	12447.2	12331.0	11495.0	9613.4	9382.5	6975.8
27.5°	14027.1	14057.2	13788.6	13488.3	13256.0	13144.3	12954.2	12239.0	10364.9	10111.4	7503.9
30°	15673.3	15682.3	15365.5	14982.2	14470.7	14046.6	13717.7	12949.6	11137.4	10861.3	8017.0
32.5°	17158.1	17099.2	16785.4	16263.2	15617.5	15140.6	14457.1	13743.4	11955.3	11688.2	8587.4
35°	18335.0	18265.6	17883.9	17408.6	16738.6	16258.8	15436.4	14535.6	12815.4	12554.3	9159.3
37.5°	19195.1	19113.7	18721.3	18232.4	17654.5	17375.3	16572.6	15397.2	13753.9	13473.3	9761.3
40°	19493.9	19423.0	19177.0	18819.4	18354.7	18291.3	17778.2	16388.5	14775.5	14476.7	10443.3
42.5°	19315.8	19246.4	19159.0	19038.2	18845.0	18905.4	18916.0	17518.7	15910.2	15615.9	11196.3
45°	18609.6	18547.8	18638.3	18814.8	19054.8	19353.6	19954.1	18733.4	17177.6	16863.8	12066.9
47.5°	17570.0	17524.7	17775.2	18215.9	18917.5	19741.4	20903.3	20009.9	18600.6	18309.4	13153.4
50°	16091.3	16083.7	16584.7	17388.9	18467.8	19928.5	21884.0	21461.6	20577.3	20271.0	14663.8
52.5°	13788.6	13803.7	14789.1	16076.2	17678.6	19801.7	22514.8	23326.6	22876.9	22558.5	15972.0
55°	11596.2	11686.6	12385.3	14241.3	16468.5	19330.9	22732.1	24197.2	24145.9	23844.2	16699.4
57.5°	9449.0	9613.4	10286.4	12020.1	14701.5	18246.0	22612.9	24574.5	25090.5	24859.7	17659.1
60°	7122.1	7197.6	7973.2	9593.8	12433.6	16266.3	21748.3	24779.7	26382.2	26222.2	19051.8
62.5°	4531.3	4720.0	5408.0	6971.2	9681.3	13517.0	20290.6	24776.7	27998.2	28085.8	20848.9
65°	2387.1	2607.4	2972.6	4320.1	6652.9	10446.4	18098.1	24544.3	29981.0	30103.2	22253.7
67.5°	1287.1	1350.5	1543.7	2242.2	3858.4	7076.9	14876.5	23397.5	31129.2	31290.8	22449.9
70°	941.6	976.3	1048.7	1240.4	1942.0	4110.4	10855.2	20797.6	29649.0	29588.7	19946.6
72.5°	722.8	777.1	831.4	908.4	1116.6	2194.0	6758.5	16285.9	23657.0	23258.7	14909.8
75°	570.4	579.4	656.4	725.8	837.5	1249.4	3001.3	9485.1	14439.0	13495.9	7731.8
77.5°	455.7	461.8	507.0	567.3	672.9	820.9	929.5	3731.6	4609.8	4113.3	1677.9
80°	270.1	285.1	377.3	437.5	558.3	517.6	339.5	810.3	719.8	651.9	282.2
82.5°	150.9	162.9	212.8	345.5	389.3	247.4	169.0	218.8	169.0	164.5	80.0
85°	0.0	7.5	137.3	214.3	158.5	54.3	70.9	72.5	49.8	46.8	31.7
87.5°	0.0	0.0	42.3	40.7	6.1	9.0	16.6	24.1	19.7	19.7	16.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P383540

CATALOG NUMBER: GLEON-SA8B-735-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2921.3	2921.3	2921.3	2921.3	2921.3	2921.3	2921.3	2921.3	2921.3	2921.3	2921.3
2.5°	2978.6	2897.1	2743.2	2592.3	2465.6	2361.5	2267.9	2230.2	2200.0	2195.5	2171.3
5°	3111.5	2947.0	2652.7	2411.3	2249.8	2135.1	2037.0	1976.7	1929.9	1911.8	1895.2
7.5°	3312.1	3063.1	2640.7	2363.0	2169.9	1976.7	1795.7	1599.5	1477.2	1430.5	1403.3
10°	3556.6	3217.0	2685.9	2349.4	2011.4	1604.0	1303.7	1054.7	953.6	920.5	911.4
12.5°	3841.7	3408.7	2764.4	2264.9	1673.4	1139.3	899.3	814.8	792.2	781.7	781.7
15°	4169.1	3618.4	2820.2	2020.4	1237.3	861.6	778.6	739.4	715.2	701.6	703.1
17.5°	4504.1	3823.6	2793.1	1665.9	912.9	766.6	704.7	662.4	629.3	615.7	612.6
20°	4842.2	4013.8	2642.1	1240.4	772.5	695.6	626.2	579.4	546.3	532.7	529.7
22.5°	5192.3	4175.2	2376.6	909.8	694.1	617.2	549.2	502.5	470.8	458.7	452.6
25°	5533.3	4306.5	2005.3	736.4	620.1	543.2	478.3	434.6	405.9	393.9	392.4
27.5°	5851.6	4389.5	1575.3	650.3	555.3	476.9	418.0	378.8	354.6	345.5	344.0
30°	6138.3	4397.0	1164.9	587.0	497.9	419.5	365.2	330.4	309.4	300.2	297.3
32.5°	6428.1	4333.7	848.0	529.7	445.1	369.7	316.9	289.7	274.6	267.1	267.1
35°	6701.2	4187.3	660.9	479.8	393.9	321.4	279.2	259.5	250.5	242.9	242.9
37.5°	6968.3	3977.5	561.4	436.1	345.5	280.7	245.9	233.9	226.4	218.8	218.8
40°	7239.9	3713.5	510.0	395.3	306.3	249.0	218.8	208.2	200.7	194.7	193.1
42.5°	7573.3	3408.7	476.9	357.6	271.6	220.3	193.1	181.1	175.0	169.0	166.0
45°	7959.6	3146.1	449.7	319.9	242.9	196.2	167.5	155.4	146.3	138.8	137.3
47.5°	8516.4	2956.0	413.4	279.2	215.7	170.5	144.9	131.3	117.7	110.1	108.6
50°	9227.2	2799.1	366.7	242.9	188.6	144.9	120.7	104.1	92.0	84.5	84.5
52.5°	9580.2	2593.9	324.5	211.3	158.5	122.2	98.1	78.4	72.5	64.9	64.9
55°	9722.1	2436.9	282.2	179.6	131.3	101.1	76.9	60.4	55.8	51.3	49.8
57.5°	10120.4	2391.7	245.9	152.4	108.6	80.0	58.9	45.3	42.3	36.2	36.2
60°	10761.7	2414.3	212.8	129.8	87.5	61.9	43.8	34.7	31.7	25.6	25.6
62.5°	11454.3	2385.6	179.6	111.7	67.9	45.3	30.2	25.6	25.6	15.1	13.6
65°	11587.1	2124.6	153.9	92.0	52.8	33.2	19.7	16.6	22.6	3.0	0.0
67.5°	10754.2	1647.7	132.7	70.9	39.2	25.6	15.1	7.5	19.7	0.0	0.0
70°	8599.4	1047.2	107.1	51.3	30.2	21.1	12.1	3.0	15.1	0.0	0.0
72.5°	6081.0	608.1	84.5	36.2	25.6	16.6	9.0	0.0	9.0	0.0	0.0
75°	3075.2	324.5	52.8	27.2	19.7	12.1	6.1	0.0	1.5	0.0	0.0
77.5°	665.4	150.9	33.2	19.7	13.6	7.5	3.0	0.0	0.0	0.0	0.0
80°	144.9	66.4	21.1	12.1	7.5	4.6	0.0	0.0	0.0	0.0	0.0
82.5°	52.8	34.7	10.5	6.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.7	18.1	6.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.1	6.1	1.5	1.5	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)