

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: P383428

Luminaire Tested: **GLEON-SA7B-735-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383428
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-SA7B-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 30393.6 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

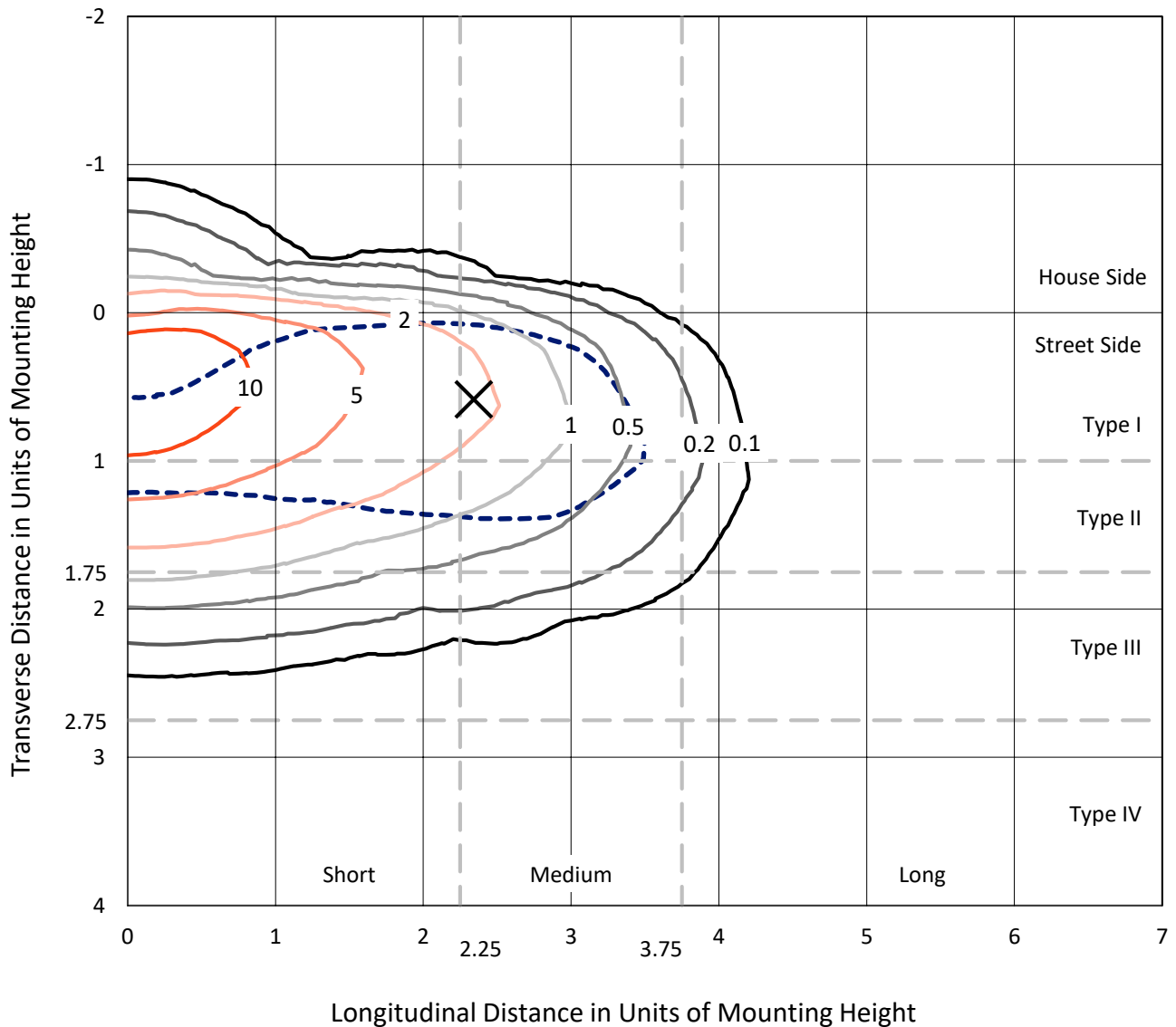
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GLEON-SA7B-735-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

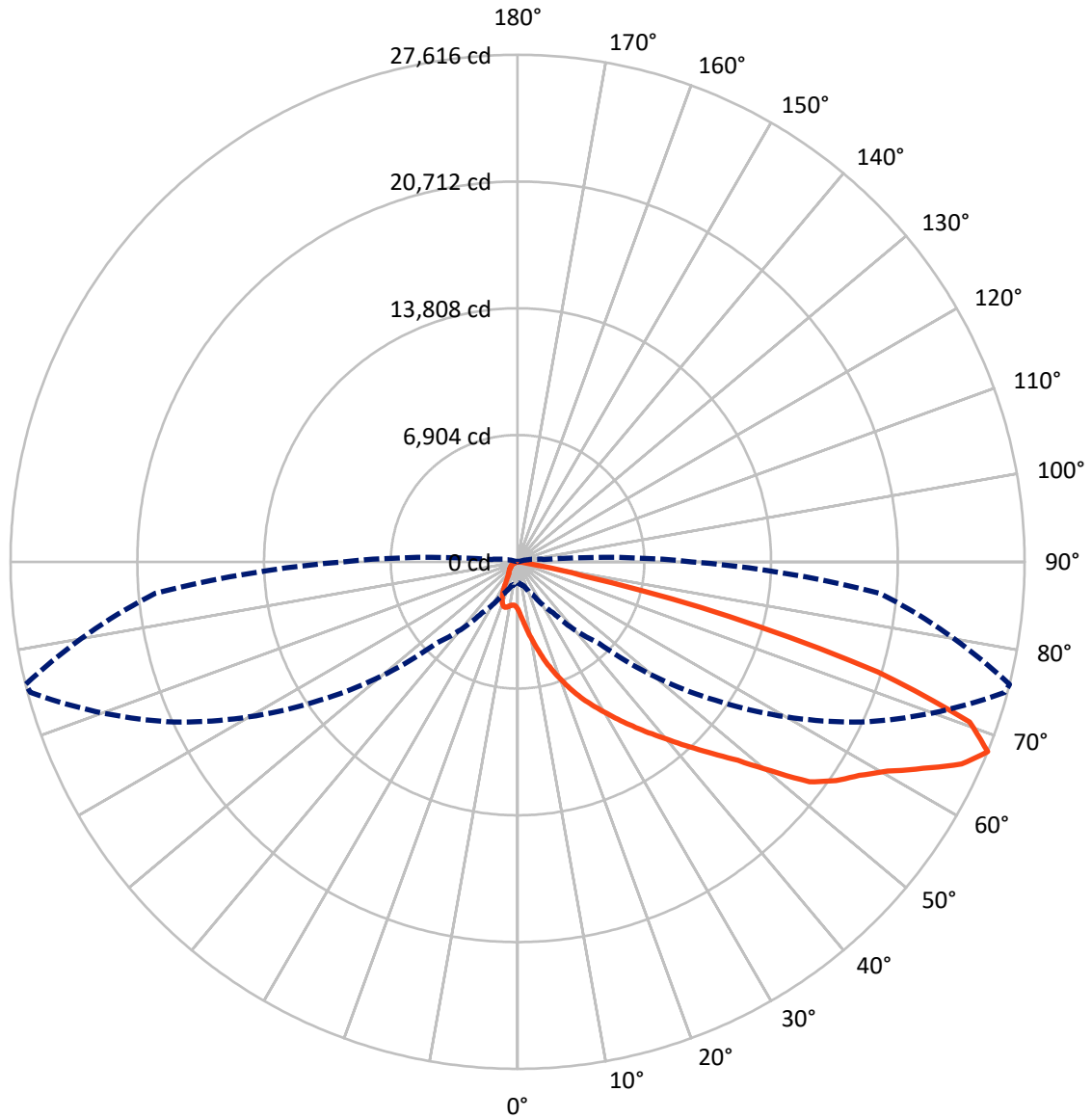
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Medium - N/A

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CATALOG NUMBER: GLEON-SA7B-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	1509.3	0.0	1509.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	28884.3	0.0	28884.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	30393.6	0.0	30393.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.6	1.1
10°-20°	1270.9	4.2
20°-30°	2585.9	8.5
30°-40°	4488.3	14.8
40°-50°	6341.3	20.9
50°-60°	7191.4	23.7
60°-70°	5964.6	19.6
70°-80°	2160.5	7.1
80°-90°	70.1	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°	30393.6	100.0
0°-180°	30393.6	100.0

Coefficient of Utilization

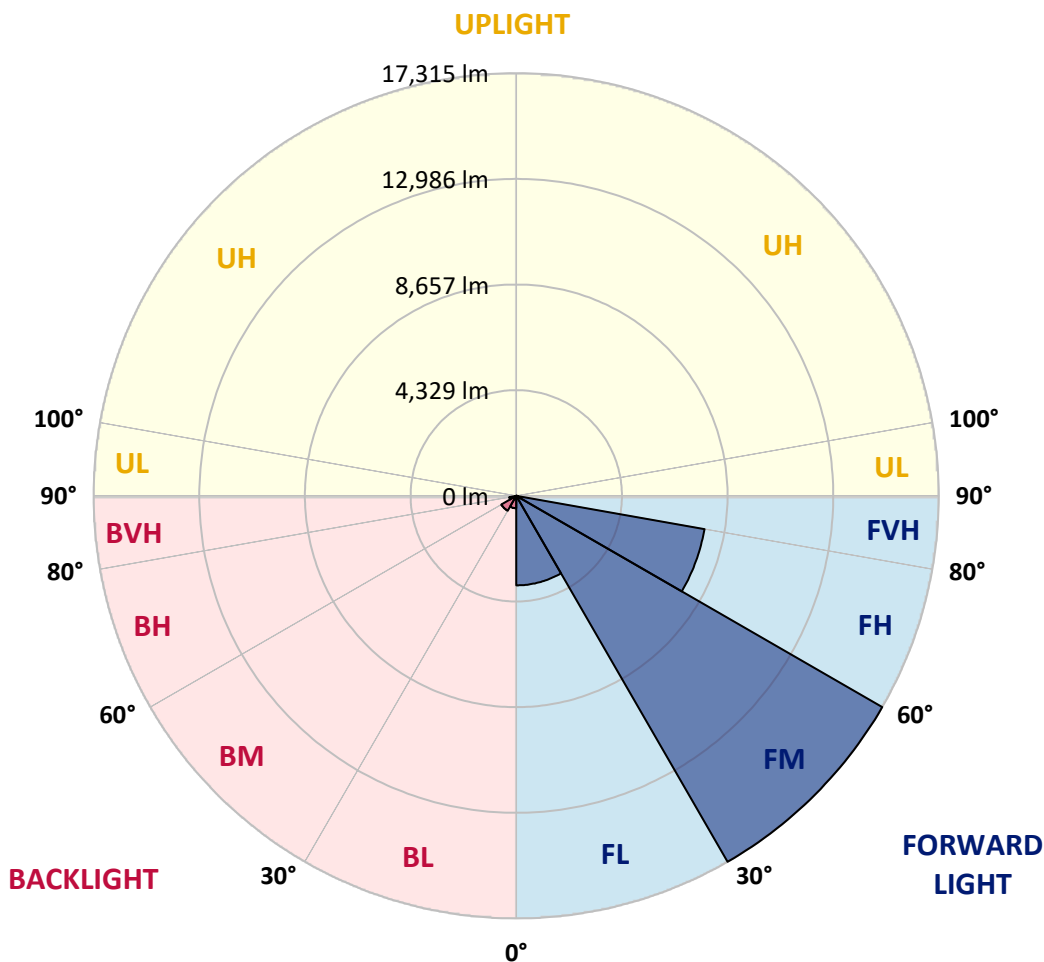


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3668.4	12.1			
FM (30°-60°)	17314.6	57.0			
FH (60°-80°)	7833.4	25.8			G4/12000
FVH (80°-90°)	67.9	0.2			G1/100
BL (0°-30°)	509.0	1.7	B2/1000		
BM (30°-60°)	706.4	2.3	B1/1000		
BH (60°-80°)	291.7	1.0	B1/500		G1/500
BVH (80°-90°)	2.2	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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CATALOG NUMBER: GLEON-SA7B-735-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2
2.5°	3848.8	3762.1	3782.2	3726.2	3625.0	3417.3	3240.1	3072.3	2876.5	2869.9	2708.8
5°	5189.8	5116.5	5107.2	4994.0	4810.2	4457.4	4113.7	3722.2	3285.4	3253.4	2911.2
7.5°	6407.0	6348.4	6327.2	6192.6	5850.4	5506.8	5059.3	4484.0	3800.8	3742.2	3184.2
10°	7341.9	7314.0	7319.3	7223.4	6930.4	6610.8	6023.5	5289.7	4385.4	4294.9	3511.8
12.5°	8050.4	8057.0	8105.0	8046.4	7882.6	7645.6	7018.3	6148.7	5032.7	4908.8	3886.0
15°	8571.1	8604.4	8692.3	8765.6	8753.6	8548.4	7973.1	7021.0	5719.9	5582.7	4302.9
17.5°	8908.0	8945.4	9073.2	9235.6	9384.8	9336.9	8894.7	7862.6	6415.0	6256.6	4749.0
20°	9203.7	9247.7	9384.8	9599.2	9877.6	9937.5	9647.2	8678.9	7108.8	6915.7	5209.8
22.5°	9844.2	9842.9	9926.9	10052.1	10317.0	10471.5	10287.7	9436.8	7794.7	7593.6	5679.9
25°	11002.9	10958.9	10929.7	10831.1	10889.7	10985.6	10883.0	10145.2	8484.5	8280.8	6156.7
27.5°	12379.9	12406.5	12169.5	11904.4	11699.4	11600.8	11433.1	10801.8	9147.8	8924.0	6622.7
30°	13832.8	13840.8	13561.2	13222.9	12771.4	12397.2	12106.9	11429.1	9829.6	9585.9	7075.6
32.5°	15143.2	15091.4	14814.3	14353.6	13783.6	13362.8	12759.4	12129.5	10551.5	10315.7	7579.0
35°	16182.0	16120.8	15783.9	15364.3	14773.0	14349.6	13623.8	12828.7	11310.5	11080.1	8083.7
37.5°	16941.1	16869.2	16523.0	16091.5	15581.4	15335.0	14626.5	13589.1	12138.8	11891.1	8615.0
40°	17204.8	17142.2	16925.1	16609.5	16199.3	16143.4	15690.6	14464.0	13040.5	12776.7	9217.0
42.5°	17047.7	16986.4	16909.2	16802.6	16632.1	16685.4	16694.7	15461.5	14042.0	13782.2	9881.6
45°	16424.4	16369.8	16449.7	16605.5	16817.2	17080.9	17611.0	16533.6	15160.6	14883.6	10649.9
47.5°	15506.8	15466.9	15687.9	16076.8	16696.1	17423.2	18448.6	17660.3	16416.4	16159.4	11608.9
50°	14201.7	14195.1	14637.2	15347.1	16299.2	17588.4	19314.3	18941.4	18161.0	17890.7	12941.9
52.5°	12169.5	12182.8	13052.5	14188.4	15602.7	17476.5	19870.9	20587.5	20190.5	19909.6	14096.6
55°	10234.4	10314.4	10931.0	12569.0	14534.7	17061.0	20062.7	21355.8	21310.5	21044.2	14738.4
57.5°	8339.4	8484.5	9078.5	10608.7	12975.2	16103.5	19957.6	21688.8	22144.3	21940.5	15585.4
60°	6285.8	6352.4	7036.9	8467.2	10973.5	14356.2	19194.4	21869.9	23284.2	23143.1	16814.6
62.5°	3999.2	4165.7	4773.0	6152.7	8544.4	11929.8	17908.0	21867.2	24710.5	24787.7	18400.7
65°	2106.8	2301.3	2623.5	3812.8	5871.6	9219.7	15973.0	21662.1	26460.4	26568.3	19640.6
67.5°	1136.0	1191.9	1362.4	1979.0	3405.3	6245.8	13129.7	20650.0	27473.9	27616.4	19813.7
70°	831.0	861.7	925.6	1094.7	1714.0	3627.6	9580.6	18355.4	26167.5	26114.2	17604.3
72.5°	637.9	685.8	733.8	801.7	985.5	1936.3	5964.9	14373.5	20879.1	20527.5	13158.9
75°	503.4	511.4	579.3	640.5	739.1	1102.7	2648.9	8371.4	12743.5	11911.1	6823.9
77.5°	402.1	407.6	447.4	500.7	594.0	724.5	820.3	3293.4	4068.4	3630.3	1480.9
80°	238.4	251.7	332.9	386.2	492.8	456.8	299.7	715.1	635.2	575.3	249.0
82.5°	133.2	143.8	187.8	305.0	343.6	218.4	149.1	193.1	149.1	145.1	70.6
85°	0.0	6.6	121.2	189.1	139.8	48.0	62.6	63.9	44.0	41.3	27.9
87.5°	0.0	0.0	37.3	36.0	5.3	8.0	14.6	21.3	17.3	17.3	14.6
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°	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2
2.5°	2628.8	2556.9	2421.1	2288.0	2176.1	2084.2	2001.6	1968.4	1941.7	1937.7	1916.4
5°	2746.0	2600.9	2341.2	2128.1	1985.6	1884.4	1797.9	1744.6	1703.3	1687.3	1672.7
7.5°	2923.2	2703.4	2330.5	2085.5	1915.1	1744.6	1584.7	1411.7	1303.8	1262.5	1238.5
10°	3138.9	2839.3	2370.5	2073.5	1775.3	1415.7	1150.6	930.9	841.7	812.4	804.4
12.5°	3390.6	3008.4	2439.7	1998.9	1476.9	1005.5	793.7	719.2	699.1	689.8	689.8
15°	3679.6	3193.5	2489.0	1783.2	1092.1	760.4	687.2	652.5	631.2	619.3	620.6
17.5°	3975.3	3374.6	2465.1	1470.3	805.7	676.5	621.9	584.6	555.3	543.4	540.7
20°	4273.6	3542.4	2331.8	1094.7	681.9	613.9	552.7	511.4	482.1	470.2	467.5
22.5°	4582.6	3684.9	2097.5	803.1	612.6	544.7	484.8	443.5	415.5	404.9	399.5
25°	4883.5	3800.8	1769.8	649.8	547.4	479.5	422.2	383.5	358.3	347.6	346.3
27.5°	5164.5	3874.0	1390.3	574.0	490.1	420.9	368.9	334.2	313.0	305.0	303.6
30°	5417.5	3880.7	1028.1	518.0	439.5	370.2	322.3	291.7	273.0	265.0	262.3
32.5°	5673.2	3824.7	748.4	467.5	392.8	326.3	279.7	255.7	242.4	235.7	235.7
35°	5914.3	3695.6	583.3	423.5	347.6	283.7	246.4	229.1	221.1	214.4	214.4
37.5°	6150.0	3510.4	495.4	384.9	305.0	247.7	217.1	206.4	199.7	193.1	193.1
40°	6389.7	3277.5	450.1	349.0	270.3	219.8	193.1	183.8	177.1	171.8	170.5
42.5°	6684.0	3008.4	420.9	315.6	239.7	194.4	170.5	159.9	154.5	149.1	146.5
45°	7025.0	2776.7	396.8	282.4	214.4	173.1	147.8	137.1	129.2	122.5	121.2
47.5°	7516.4	2608.9	364.9	246.4	190.4	150.4	127.8	115.9	103.9	97.3	95.9
50°	8143.6	2470.4	323.6	214.4	166.5	127.8	106.6	91.9	81.2	74.6	74.6
52.5°	8455.3	2289.3	286.4	186.4	139.8	107.9	86.5	69.2	63.9	57.3	57.3
55°	8580.4	2150.8	249.0	158.5	115.9	89.2	67.9	53.3	49.3	45.3	44.0
57.5°	8932.1	2110.8	217.1	134.5	95.9	70.6	52.0	40.0	37.3	32.0	32.0
60°	9498.0	2130.8	187.8	114.5	77.2	54.6	38.7	30.6	27.9	22.6	22.6
62.5°	10109.2	2105.5	158.5	98.6	59.9	40.0	26.6	22.6	22.6	13.3	12.0
65°	10226.4	1875.1	135.8	81.2	46.6	29.3	17.3	14.6	19.9	2.7	0.0
67.5°	9491.4	1454.2	117.2	62.6	34.7	22.6	13.3	6.6	17.3	0.0	0.0
70°	7589.6	924.2	94.6	45.3	26.6	18.6	10.6	2.7	13.3	0.0	0.0
72.5°	5366.9	536.7	74.6	32.0	22.6	14.6	8.0	0.0	8.0	0.0	0.0
75°	2714.1	286.4	46.6	23.9	17.3	10.6	5.3	0.0	1.3	0.0	0.0
77.5°	587.3	133.2	29.3	17.3	12.0	6.6	2.7	0.0	0.0	0.0	0.0
80°	127.8	58.6	18.6	10.6	6.6	4.0	0.0	0.0	0.0	0.0	0.0
82.5°	46.6	30.6	9.3	5.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.3	16.0	5.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.3	5.3	1.3	1.3	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)