

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: P383432

Luminaire Tested: **GLEON-SA7B-735-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
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-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28959 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

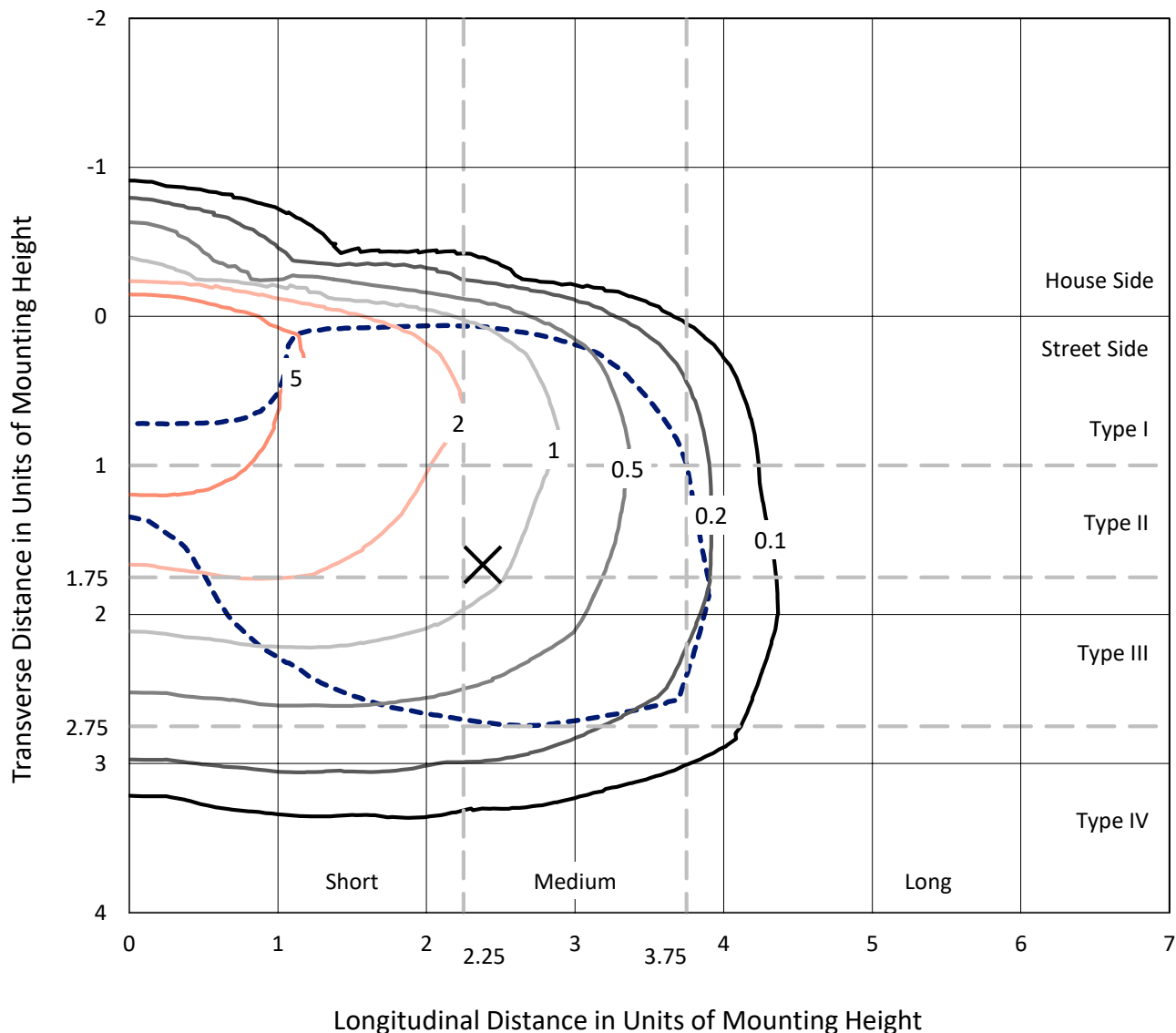
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

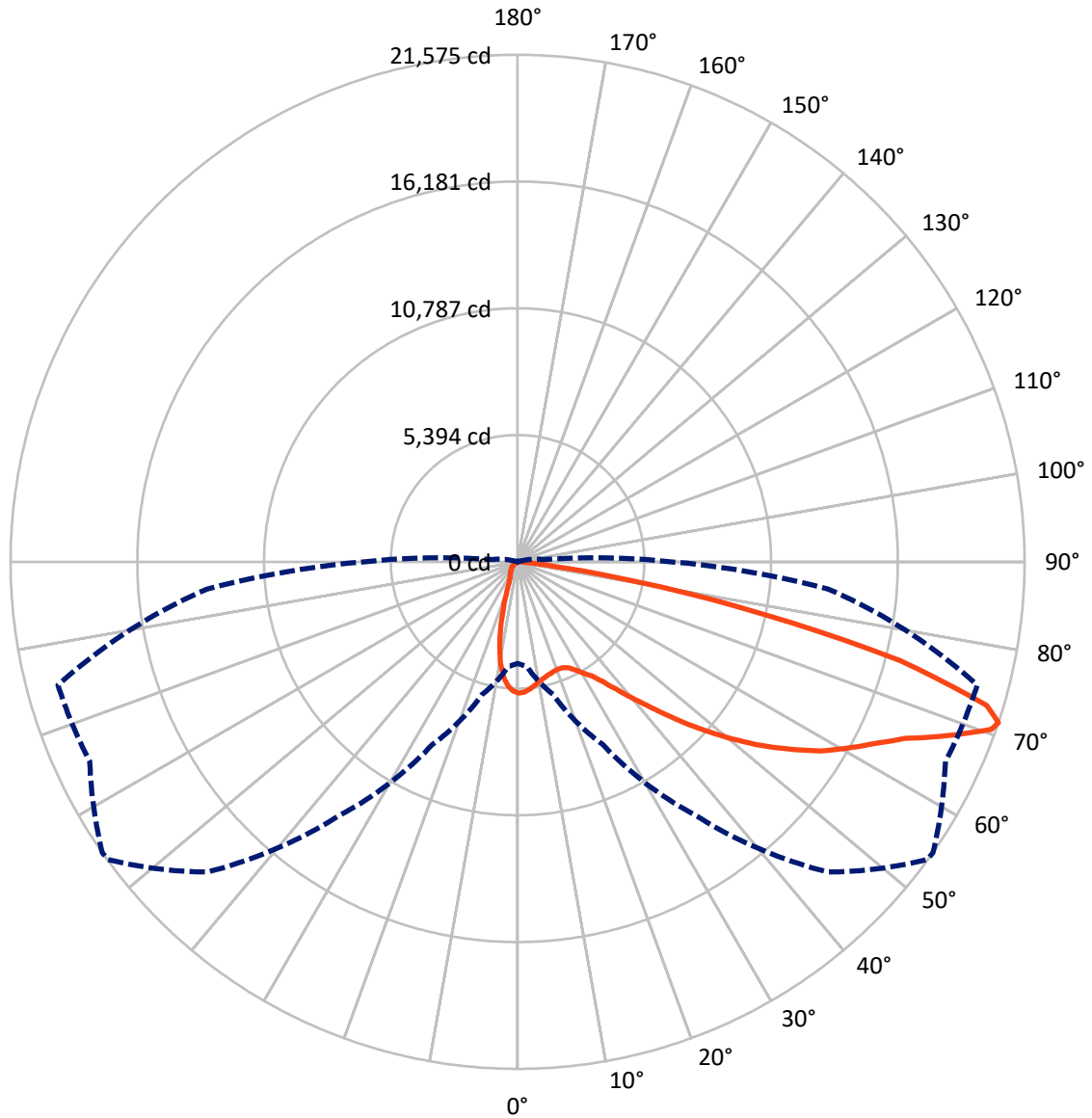
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2292.8	0.0	2292.8
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	26666.3	0.0	26666.3
	% Fixture	92.1	0.0	92.1
Total	Lumens	28959.0	0.0	28959.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.2	1.6
10°-20°	1075.0	3.7
20°-30°	1727.6	6.0
30°-40°	2935.3	10.1
40°-50°	4555.9	15.7
50°-60°	6125.3	21.2
60°-70°	7493.2	25.9
70°-80°	4381.1	15.1
80°-90°	189.4	0.7
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°	28959.0	100.0
0°-180°	28959.0	100.0

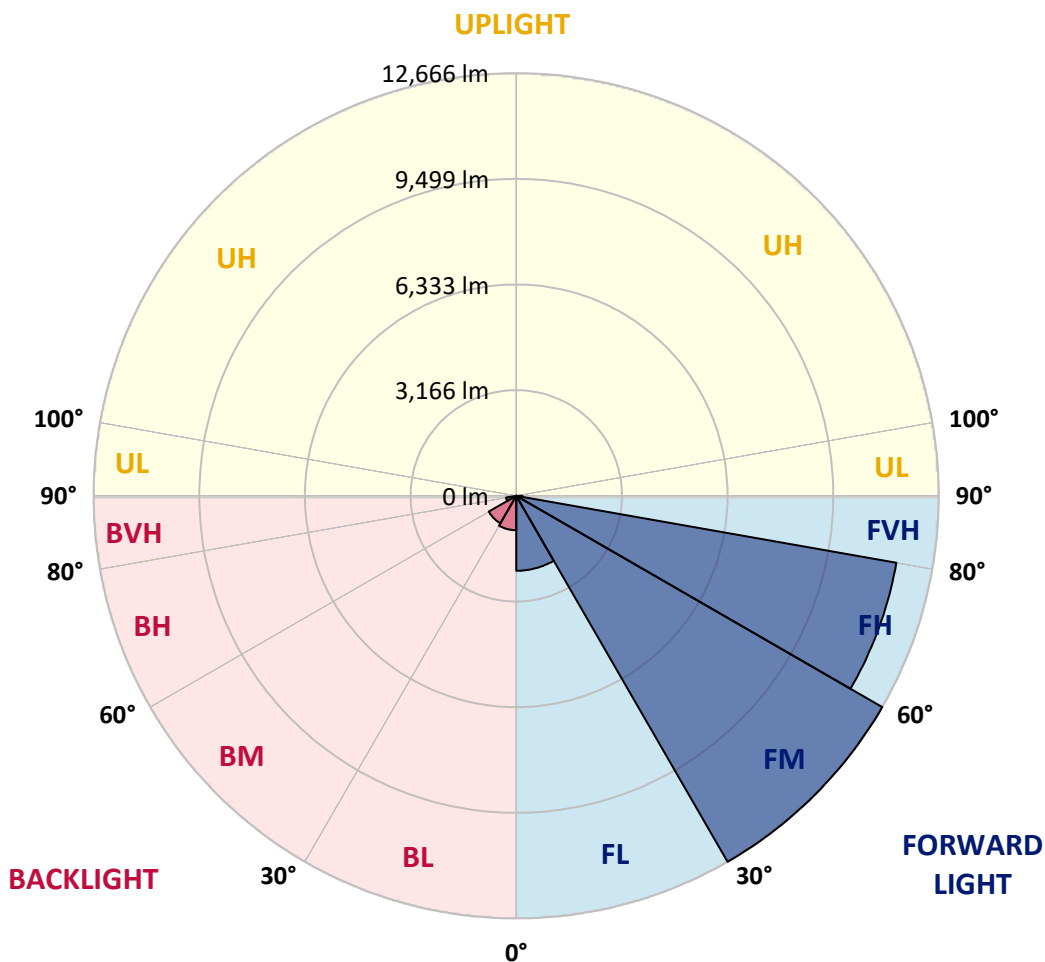


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2246.8	7.8			
FM (30°-60°)	12665.8	43.7			
FH (60°-80°)	11567.2	39.9			G4/12000
FVH (80°-90°)	186.4	0.6			G2/225
BL (0°-30°)	1032.0	3.6	B3/2500		
BM (30°-60°)	950.6	3.3	B1/1000		
BH (60°-80°)	307.2	1.1	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5584.8	5584.8	5584.8	5584.8	5584.8	5584.8	5584.8	5584.8	5584.8	5584.8	5584.8
2.5°	5421.0	5427.5	5451.0	5461.3	5486.1	5527.6	5548.5	5549.8	5583.5	5596.6	5607.0
5°	5037.4	5076.5	5115.4	5157.0	5232.5	5332.6	5431.4	5440.5	5549.8	5630.4	5673.3
7.5°	4707.1	4742.2	4789.1	4855.4	4962.0	5119.3	5284.5	5304.0	5510.8	5694.1	5790.3
10°	4367.7	4396.3	4464.0	4561.5	4708.4	4919.1	5141.4	5173.9	5475.6	5779.9	5949.0
12.5°	4005.0	4021.9	4103.7	4244.2	4460.1	4728.0	5020.5	5063.4	5453.6	5878.7	6136.2
15°	3729.3	3737.1	3815.2	3960.8	4207.8	4556.3	4926.9	4978.9	5458.7	5997.0	6340.3
17.5°	3659.1	3663.0	3704.6	3804.7	4023.2	4402.9	4852.8	4916.5	5474.3	6112.8	6545.8
20°	3943.9	3916.5	3873.7	3858.0	3951.6	4310.6	4808.6	4880.1	5495.1	6215.5	6730.4
22.5°	4725.4	4644.7	4466.6	4228.7	4084.3	4317.1	4820.3	4891.7	5561.4	6341.6	6943.7
25°	5885.2	5773.4	5470.4	5002.3	4552.4	4504.3	4917.8	4990.6	5690.2	6492.5	7147.9
27.5°	7205.1	7094.5	6723.9	6055.5	5288.4	4874.9	5141.4	5209.0	5881.3	6626.4	7303.9
30°	8469.0	8437.8	8000.9	7241.5	6214.2	5475.6	5430.1	5487.3	6023.0	6707.0	7427.4
32.5°	9540.4	9491.0	9139.9	8401.3	7274.0	6197.3	5769.5	5786.4	6129.7	6811.0	7588.7
35°	10533.8	10472.7	10164.6	9466.3	8361.0	7078.9	6292.2	6267.5	6362.5	7020.4	7822.7
37.5°	11401.1	11457.1	11115.1	10450.7	9336.2	7995.7	6996.9	6922.9	6726.5	7361.1	8162.0
40°	12126.7	12126.7	11948.6	11394.7	10389.6	8943.6	7794.1	7696.5	7274.0	7886.4	8592.5
42.5°	12388.1	12444.0	12510.3	12196.9	11332.3	9929.2	8682.2	8580.8	8045.0	8631.5	9136.0
45°	12403.7	12492.1	12831.5	12830.2	12184.0	10908.3	9683.4	9635.4	9033.3	9588.5	9809.6
47.5°	12184.0	12294.5	12853.6	13170.9	12858.8	11819.8	10778.3	10718.5	10194.5	10761.4	10514.4
50°	11844.5	11966.8	12617.0	13304.8	13317.8	12613.1	11931.7	11841.9	11472.7	12102.0	11242.5
52.5°	11237.4	11474.0	12405.0	13336.0	13619.5	13298.3	13029.2	12990.2	12903.1	13393.2	11822.5
55°	9938.3	10201.0	11873.1	13346.5	13899.1	13905.6	14057.7	14068.1	14243.6	14600.0	12254.1
57.5°	9324.5	9472.8	10944.8	13395.8	14313.9	14594.7	15105.8	15186.4	15458.1	15745.5	12747.0
60°	8938.4	9113.9	10487.0	13328.2	14965.3	15498.4	16077.1	16104.4	16395.7	16927.5	13414.0
62.5°	8630.2	8803.1	10198.4	13068.1	15697.4	16585.6	17026.4	17028.9	17247.4	18335.7	14172.1
65°	7869.5	8015.1	9614.5	12775.6	16181.1	17660.8	18128.9	18112.1	18290.2	19820.7	15052.4
67.5°	6769.5	6881.2	8422.1	11666.4	15999.1	18638.7	19793.4	19737.4	19521.6	21104.1	15398.3
70°	5233.8	5274.0	6638.1	9722.5	14293.0	19014.5	21401.8	21373.2	20277.1	20873.9	14130.6
71°	4326.1	4458.8	5850.1	8580.8	13150.1	18667.3	21557.9	21574.8	20087.2	20247.2	13258.0
72.5°	2512.2	2625.4	4240.3	6590.0	11164.5	17218.7	20749.1	20871.3	19200.4	18416.3	11324.5
75°	538.3	576.1	1572.1	3189.7	6141.4	12068.2	16377.4	16813.0	15649.3	12528.6	6825.4
77.5°	374.5	404.4	673.6	1447.3	2029.7	5963.2	10173.6	10665.2	9349.3	4708.4	2184.6
80°	296.5	330.2	525.3	715.1	548.8	1923.2	4765.6	5066.0	3118.2	1050.7	368.0
82.5°	165.2	196.4	409.6	386.2	210.6	365.4	1334.2	1508.4	624.1	211.9	87.1
85°	48.1	58.5	264.0	280.9	89.7	70.2	227.6	282.2	118.3	55.9	39.0
87.5°	0.0	0.0	127.4	108.0	26.0	10.4	20.8	23.4	23.4	23.4	26.0
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°	5584.8	5584.8	5584.8	5584.8	5584.8	5584.8	5584.8	5584.8	5584.8	5584.8	5584.8
2.5°	5607.0	5616.0	5583.5	5540.7	5495.1	5439.2	5380.7	5335.2	5333.9	5311.8	5289.7
5°	5675.9	5670.7	5581.0	5444.4	5283.2	5115.4	4955.5	4774.7	4714.9	4640.8	4616.1
7.5°	5803.3	5766.9	5577.1	5278.0	4924.3	4573.2	4210.4	3845.1	3689.0	3548.5	3523.9
10°	5963.2	5894.4	5552.3	5028.3	4379.5	3731.9	3184.5	2687.8	2469.3	2301.6	2293.7
12.5°	6129.7	6024.3	5483.5	4651.2	3665.5	2755.3	2124.7	1635.8	1453.8	1336.7	1347.1
15°	6304.0	6146.6	5335.2	4142.8	2852.9	1869.9	1305.5	1018.2	945.3	915.4	923.3
17.5°	6482.1	6231.1	5128.4	3530.4	2050.6	1206.7	903.7	823.1	823.1	829.6	832.2
20°	6636.8	6276.6	4824.2	2843.8	1390.1	879.0	790.6	778.9	785.4	795.8	797.1
22.5°	6790.2	6279.2	4427.6	2148.1	972.6	769.8	752.9	747.7	751.6	763.3	764.6
25°	6915.1	6248.0	3930.9	1527.8	776.3	725.6	717.8	715.1	717.8	732.1	732.1
27.5°	6965.7	6134.9	3324.9	1074.1	695.7	676.1	673.6	676.1	680.0	690.5	691.8
30°	6971.0	5937.2	2664.3	777.6	630.7	609.9	615.0	624.1	620.2	617.6	620.2
32.5°	6984.0	5708.3	2020.7	639.8	576.1	543.6	537.0	537.0	521.4	512.4	507.1
35°	7026.9	5439.2	1465.4	574.8	520.1	482.4	457.7	429.1	399.2	383.6	379.7
37.5°	7094.5	5157.0	1049.4	531.8	470.7	427.8	381.0	330.2	287.4	275.6	275.6
40°	7218.0	4865.8	776.3	498.0	431.7	378.4	308.2	241.8	202.9	196.4	196.4
42.5°	7413.1	4558.9	618.9	468.1	397.9	327.7	235.4	175.5	146.9	143.0	141.7
45°	7616.0	4220.8	540.9	439.5	361.5	269.1	174.2	130.0	113.1	109.3	109.3
47.5°	7818.8	3860.6	503.2	412.2	326.4	209.3	130.0	102.7	94.9	94.9	96.2
50°	7990.4	3484.8	475.9	382.3	280.9	158.6	102.7	87.1	84.5	89.7	91.0
52.5°	8033.4	3115.6	442.1	344.6	225.0	120.9	84.5	76.8	76.8	76.8	76.8
55°	8007.3	2829.5	397.9	297.8	166.5	96.2	72.8	67.6	66.3	66.3	66.3
57.5°	8095.8	2660.4	318.6	231.5	119.6	78.1	63.7	59.8	57.2	55.9	55.9
60°	8273.9	2549.9	227.6	166.5	89.7	65.0	54.6	50.7	46.9	44.2	44.2
62.5°	8510.5	2453.7	169.1	123.5	68.9	52.0	45.6	41.6	36.4	33.8	33.8
65°	8692.6	2282.0	128.7	92.3	52.0	41.6	35.1	33.8	26.0	23.4	22.1
67.5°	8414.3	1904.9	104.1	67.6	39.0	32.5	27.3	26.0	15.6	13.0	13.0
70°	7216.7	1326.3	83.2	49.4	28.6	26.0	22.1	16.9	11.7	10.4	10.4
71°	6544.5	1107.9	75.5	41.6	24.7	24.7	20.8	14.3	10.4	9.1	9.1
72.5°	5436.6	786.7	63.7	32.5	22.1	26.0	22.1	13.0	10.4	9.1	7.8
75°	3155.9	329.0	44.2	22.1	16.9	31.2	28.6	11.7	7.8	6.5	6.5
77.5°	949.2	120.9	24.7	14.3	13.0	27.3	32.5	10.4	3.9	1.3	1.3
80°	173.0	52.0	15.6	9.1	9.1	16.9	24.7	5.2	0.0	0.0	0.0
82.5°	61.1	26.0	9.1	5.2	3.9	7.8	11.7	0.0	0.0	0.0	0.0
85°	35.1	18.2	5.2	2.6	0.0	1.3	2.6	0.0	0.0	0.0	0.0
87.5°	23.4	5.2	0.0	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)