

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: P193386

Luminaire Tested: **GLEON-AF-08-LED-E1-5NQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-5NQ-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32442 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G2

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: 25 FT

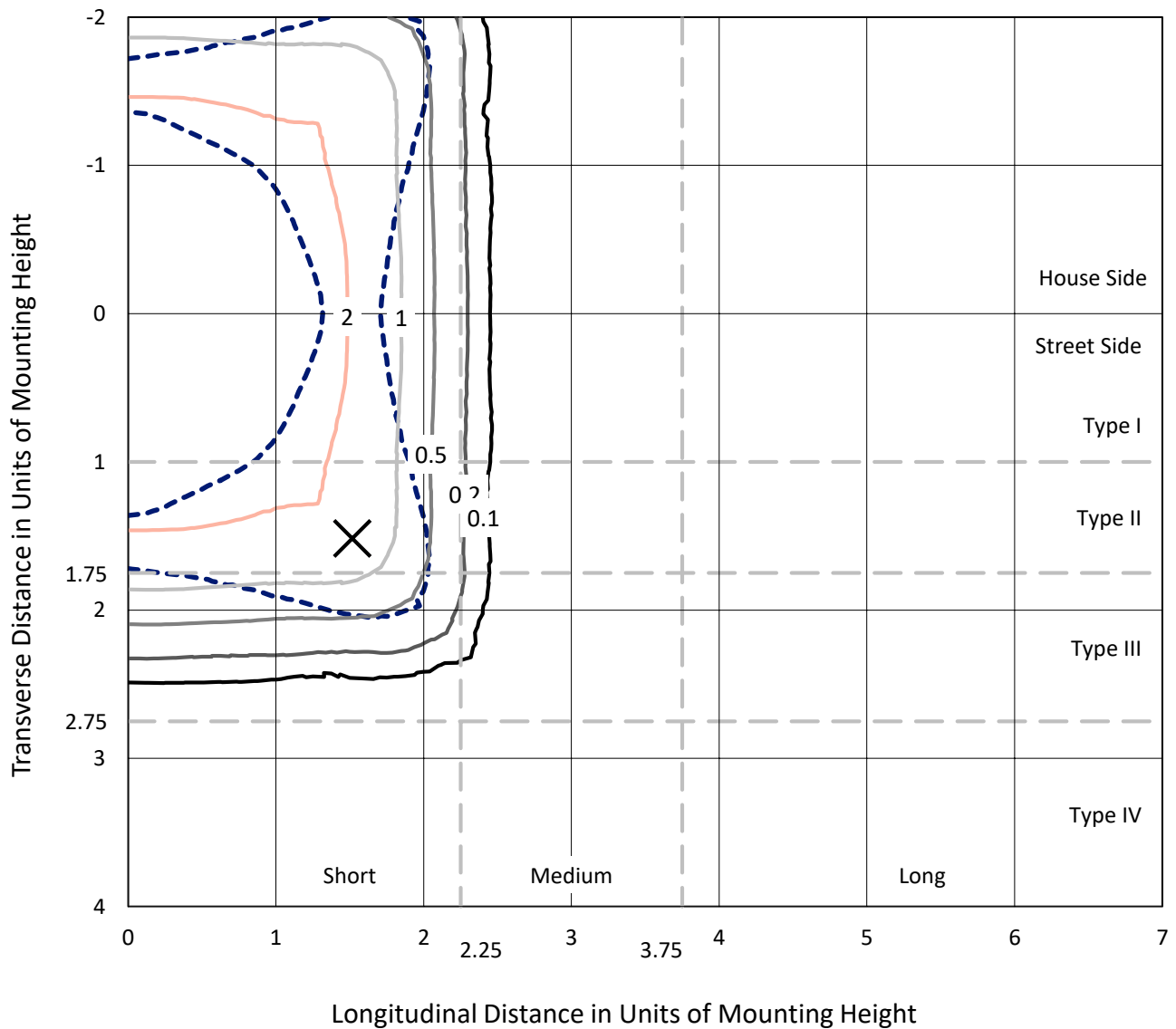


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

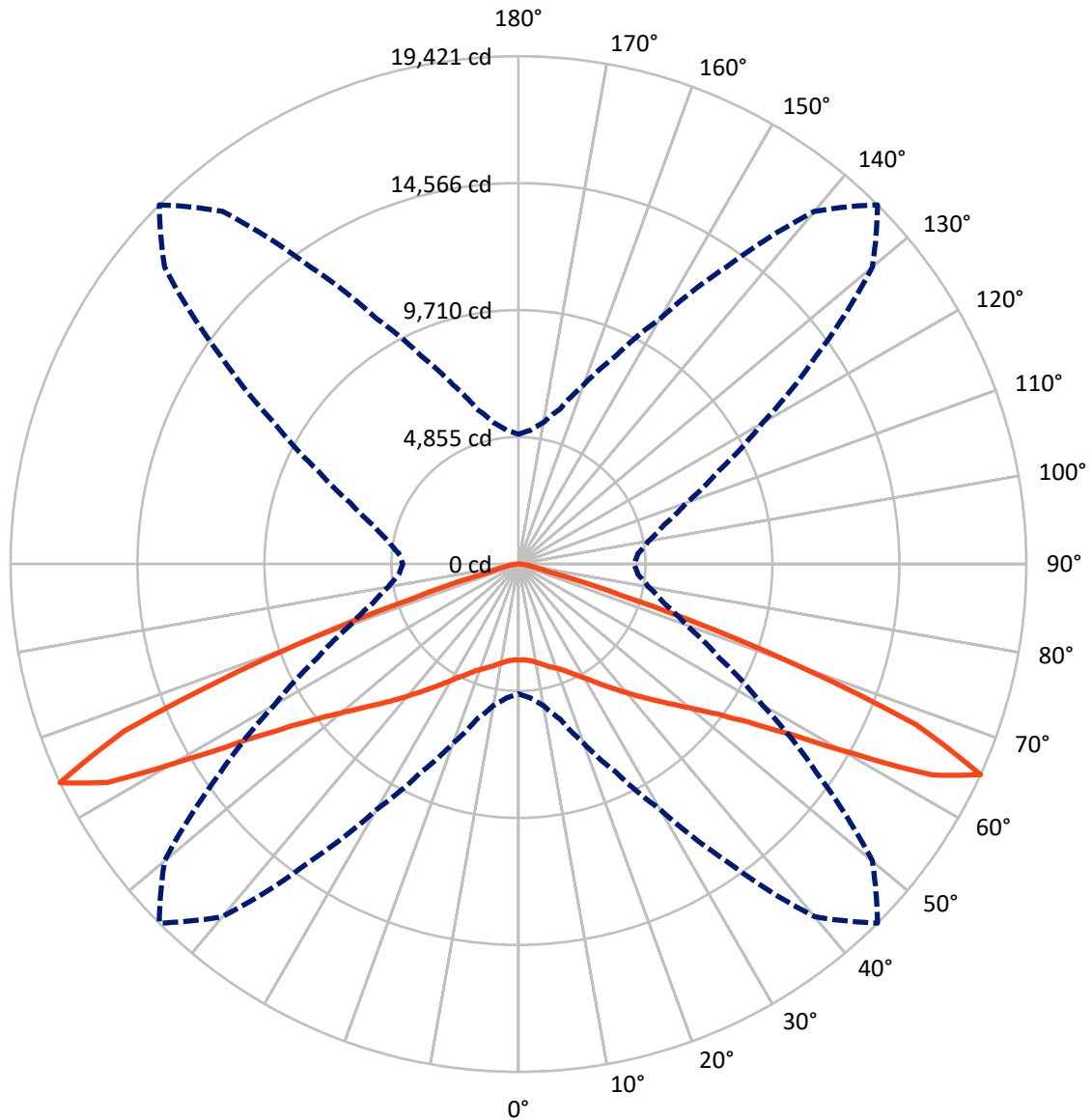


Based on 30 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16221.0	0.0	16221.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16221.0	0.0	16221.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32442.0	0.0	32442.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.8	1.1
10°-20°	1147.5	3.5
20°-30°	2145.6	6.6
30°-40°	3628.8	11.2
40°-50°	5933.5	18.3
50°-60°	9435.1	29.1
60°-70°	8528.7	26.3
70°-80°	1079.3	3.3
80°-90°	185.7	0.6
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°	32442.0	100.0
0°-180°	32442.0	100.0



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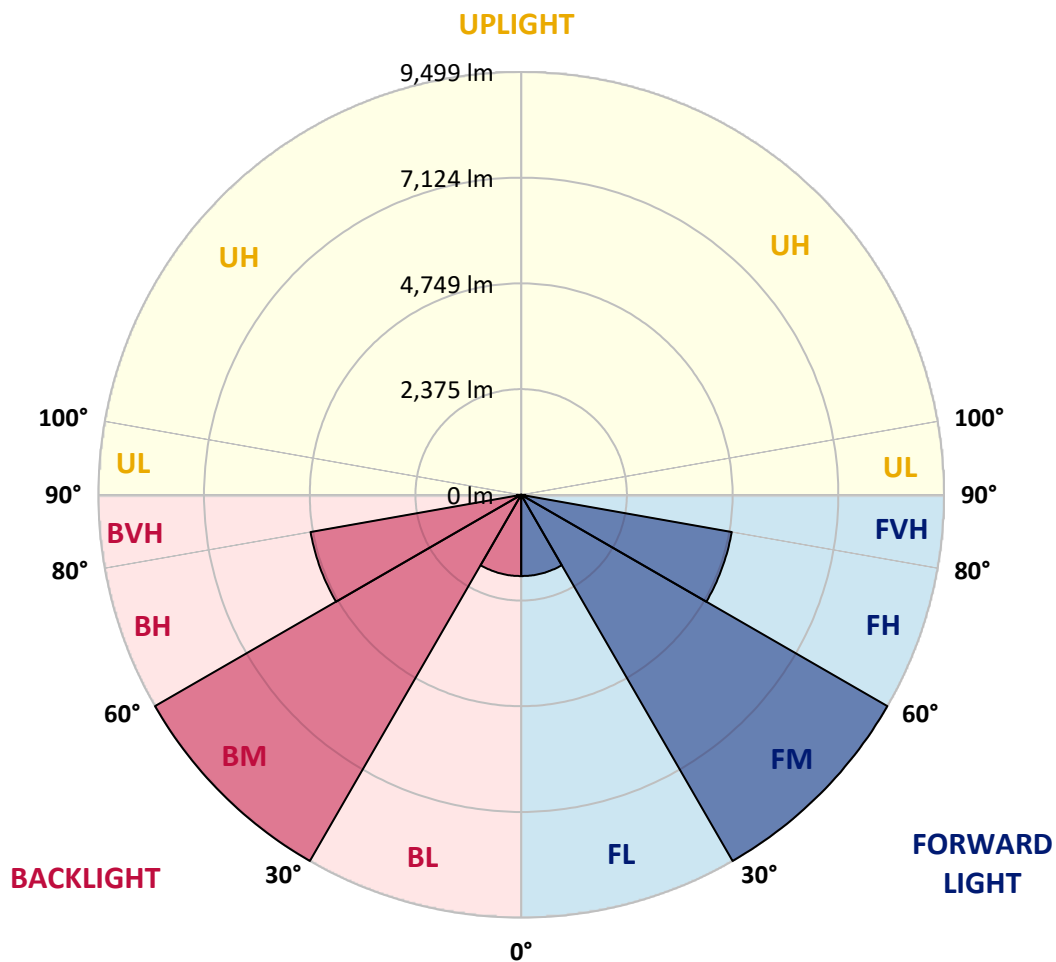
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1825.4	5.6			
FM	(30°-60°)	9498.7	29.3			
FH	(60°-80°)	4804.0	14.8			G2/5000
FVH	(80°-90°)	92.8	0.3			G1/100
BL	(0°-30°)	1825.4	5.6	B3/2500		
BM	(30°-60°)	9498.7	29.3	B5		
BH	(60°-80°)	4804.0	14.8	B4/5000		G2/5000
BVH	(80°-90°)	92.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3670.8	3670.8	3670.8	3670.8	3670.8	3670.8	3670.8	3670.8	3670.8	3670.8	3670.8
2.5°	3673.9	3676.9	3679.9	3676.9	3679.9	3675.4	3672.3	3676.9	3672.3	3667.8	3670.8
5°	3705.8	3707.3	3707.3	3702.7	3707.3	3704.3	3699.7	3705.8	3701.2	3696.7	3699.7
7.5°	3759.0	3765.0	3760.5	3755.9	3759.0	3755.9	3752.9	3754.4	3752.9	3748.3	3749.8
10°	3830.4	3834.9	3831.9	3830.4	3833.4	3831.9	3828.8	3827.3	3828.8	3824.3	3824.3
12.5°	3917.0	3915.5	3913.9	3915.5	3920.0	3920.0	3918.5	3920.0	3923.0	3924.6	3921.5
15°	4002.1	4005.1	4005.1	4005.1	4014.2	4021.8	4026.4	4029.4	4035.5	4037.0	4030.9
17.5°	4108.4	4108.4	4106.9	4108.4	4117.5	4129.7	4134.2	4140.3	4146.4	4151.0	4143.4
20°	4226.9	4230.0	4230.0	4233.0	4245.2	4258.8	4258.8	4261.9	4258.8	4261.9	4257.3
22.5°	4371.3	4380.4	4380.4	4381.9	4394.1	4410.8	4406.2	4410.8	4403.2	4409.2	4403.2
25°	4559.7	4573.3	4570.3	4570.3	4579.4	4590.1	4591.6	4600.7	4599.2	4606.8	4602.2
27.5°	4772.4	4793.7	4799.7	4798.2	4804.3	4814.9	4818.0	4828.6	4822.5	4828.6	4825.6
30°	5027.6	5036.8	5048.9	5053.5	5061.1	5071.7	5071.7	5073.2	5065.6	5074.7	5079.3
32.5°	5292.0	5308.7	5320.9	5348.2	5361.9	5369.5	5368.0	5371.0	5363.4	5375.6	5384.7
35°	5641.5	5653.6	5673.4	5694.6	5712.9	5711.4	5706.8	5708.3	5708.3	5719.0	5728.1
37.5°	6062.3	6065.4	6091.2	6121.6	6130.7	6121.6	6094.2	6088.2	6074.5	6088.2	6103.4
40°	6507.5	6518.2	6569.8	6589.6	6594.1	6577.4	6537.9	6515.1	6484.7	6501.4	6522.7
42.5°	6974.0	6995.2	7042.3	7077.3	7092.5	7081.8	7027.1	6992.2	6952.7	6961.8	6983.1
45°	7490.6	7516.4	7583.2	7616.7	7645.5	7628.8	7575.6	7522.5	7460.2	7464.7	7498.2
47.5°	8067.9	8093.8	8180.4	8236.6	8251.8	8248.7	8189.5	8116.5	8031.5	8028.4	8057.3
50°	8715.2	8741.0	8848.9	8935.5	8979.6	8975.0	8905.1	8801.8	8698.5	8700.0	8736.5
52.5°	9347.2	9379.2	9491.6	9640.5	9727.1	9789.4	9746.8	9649.6	9523.5	9526.5	9560.0
55°	9939.8	9993.0	10122.1	10324.2	10485.3	10660.0	10710.1	10707.1	10631.1	10652.4	10685.8
57.5°	10227.0	10306.0	10505.0	10824.1	11152.3	11507.8	11808.6	12033.5	12129.2	12273.6	12240.2
60°	9683.0	9809.1	10102.4	10571.9	11220.6	11962.1	12756.7	13533.1	14195.6	14695.5	14408.3
62.5°	7928.1	8092.2	8447.8	9049.4	10031.0	11217.6	12738.5	14573.9	16573.4	17779.8	16918.3
65°	4960.8	5131.0	5492.6	6136.8	7285.4	8760.8	10824.1	13865.9	17602.1	19420.8	17667.4
67.5°	1934.2	2026.9	2222.9	2634.6	3497.6	4810.4	6881.3	10333.3	14801.8	16395.7	14526.8
70°	969.4	978.5	1014.9	1090.9	1276.3	1657.6	2522.2	4790.6	8488.8	10252.8	8183.4
72.5°	700.4	702.0	720.2	753.6	812.9	898.0	1062.0	1466.2	2760.7	4219.3	2587.5
75°	536.3	542.4	553.1	571.3	603.2	645.7	705.0	844.8	1046.9	1214.0	1021.0
77.5°	413.3	425.4	433.0	449.7	469.5	498.4	515.1	568.2	660.9	695.9	685.2
80°	314.5	325.1	341.9	355.5	369.2	382.9	376.8	401.1	449.7	478.6	463.4
82.5°	200.6	212.7	261.3	273.5	279.6	288.7	278.0	279.6	300.8	319.1	300.8
85°	129.1	136.7	165.6	180.8	182.3	188.4	183.8	173.2	173.2	158.0	177.8
87.5°	59.3	60.8	74.4	88.1	91.2	82.0	80.5	77.5	62.3	59.3	63.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3670.8	3670.8	3670.8	3670.8	3670.8	3670.8	3670.8	3670.8
2.5°	3669.3	3672.3	3673.9	3678.4	3679.9	3679.9	3681.5	3684.5
5°	3698.2	3702.7	3704.3	3710.3	3711.9	3710.3	3713.4	3714.9
7.5°	3749.8	3757.4	3760.5	3766.6	3762.0	3768.1	3769.6	3769.6
10°	3825.8	3833.4	3834.9	3841.0	3838.0	3841.0	3841.0	3838.0
12.5°	3926.1	3927.6	3923.0	3927.6	3921.5	3924.6	3920.0	3917.0
15°	4037.0	4032.4	4021.8	4021.8	4012.7	4014.2	4012.7	4011.2
17.5°	4144.9	4135.8	4128.2	4125.1	4117.5	4116.0	4111.5	4111.5
20°	4263.4	4258.8	4254.3	4248.2	4240.6	4233.0	4231.5	4234.5
22.5°	4406.2	4404.7	4404.7	4401.7	4391.0	4383.4	4378.9	4378.9
25°	4597.7	4584.0	4584.0	4582.5	4577.9	4573.3	4564.2	4568.8
27.5°	4813.4	4805.8	4811.9	4810.4	4805.8	4805.8	4799.7	4799.7
30°	5079.3	5076.3	5085.4	5077.8	5062.6	5061.1	5055.0	5047.4
32.5°	5386.2	5383.2	5396.8	5387.7	5363.4	5349.7	5337.6	5331.5
35°	5728.1	5729.6	5746.3	5740.2	5712.9	5703.8	5682.5	5679.5
37.5°	6101.8	6126.2	6155.0	6161.1	6138.3	6132.2	6109.4	6097.3
40°	6540.9	6572.9	6616.9	6627.5	6603.2	6598.7	6566.8	6550.1
42.5°	7008.9	7063.6	7118.3	7127.4	7103.1	7078.8	7048.4	7036.3
45°	7531.6	7596.9	7668.3	7686.6	7650.1	7621.2	7581.7	7581.7
47.5°	8118.1	8200.1	8280.6	8330.8	8297.4	8267.0	8219.9	8189.5
50°	8810.9	8923.3	9028.2	9079.8	9026.7	8968.9	8886.9	8859.5
52.5°	9680.0	9801.5	9892.7	9865.4	9783.3	9702.8	9613.1	9576.7
55°	10789.1	10830.2	10830.2	10726.8	10562.8	10427.5	10286.2	10239.1
57.5°	12176.3	12018.3	11775.2	11466.8	11079.3	10742.0	10514.1	10406.3
60°	13806.6	13046.9	12188.5	11345.2	10652.4	10081.1	9742.3	9587.3
62.5°	14893.0	12905.6	11185.7	9831.9	8835.2	8146.9	7679.0	7496.6
65°	13919.1	10763.3	8459.9	6840.3	5753.9	5053.5	4590.1	4419.9
67.5°	10195.1	6744.5	4505.0	3228.7	2365.7	1887.1	1697.2	1618.1
70°	4576.4	2374.8	1455.6	1136.5	980.0	899.5	864.5	852.4
72.5°	1379.6	998.2	841.7	759.7	697.4	657.9	629.0	626.0
75°	832.6	692.8	615.4	566.7	527.2	495.3	480.1	475.6
77.5°	581.9	509.0	472.5	437.6	407.2	382.9	369.2	358.6
80°	408.7	373.8	357.1	337.3	317.6	294.8	275.0	265.9
82.5°	273.5	265.9	265.9	253.7	237.0	215.8	176.2	167.1
85°	176.2	174.7	177.8	173.2	161.1	138.3	114.0	107.9
87.5°	82.0	83.6	92.7	91.2	88.1	72.9	57.7	54.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)