

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: P193378

Luminaire Tested: **GLEON-AF-10-LED-E1-5NQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193378
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-10-LED-E1-5NQ-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32674 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G2

Input Watts (W): 323
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

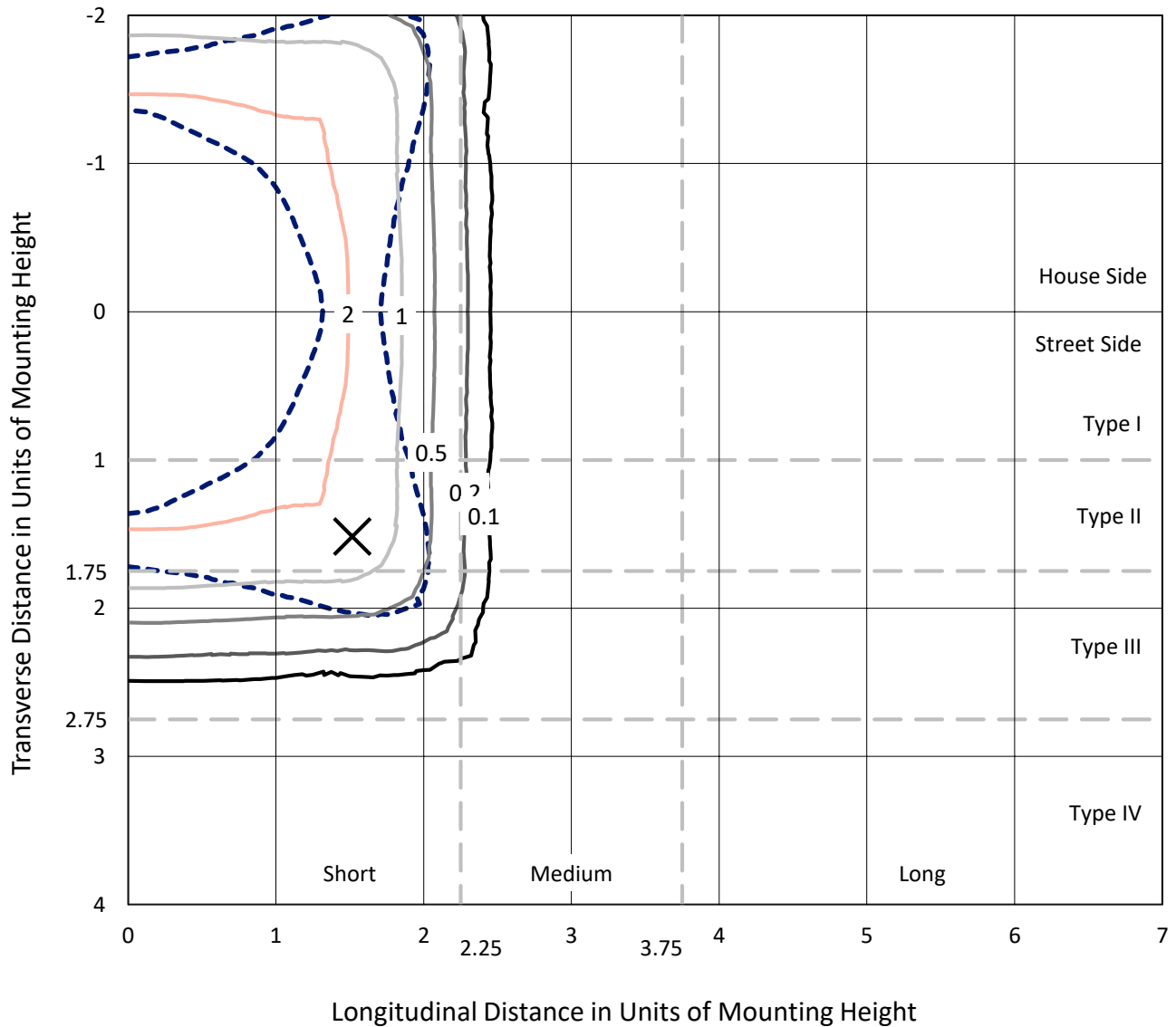


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

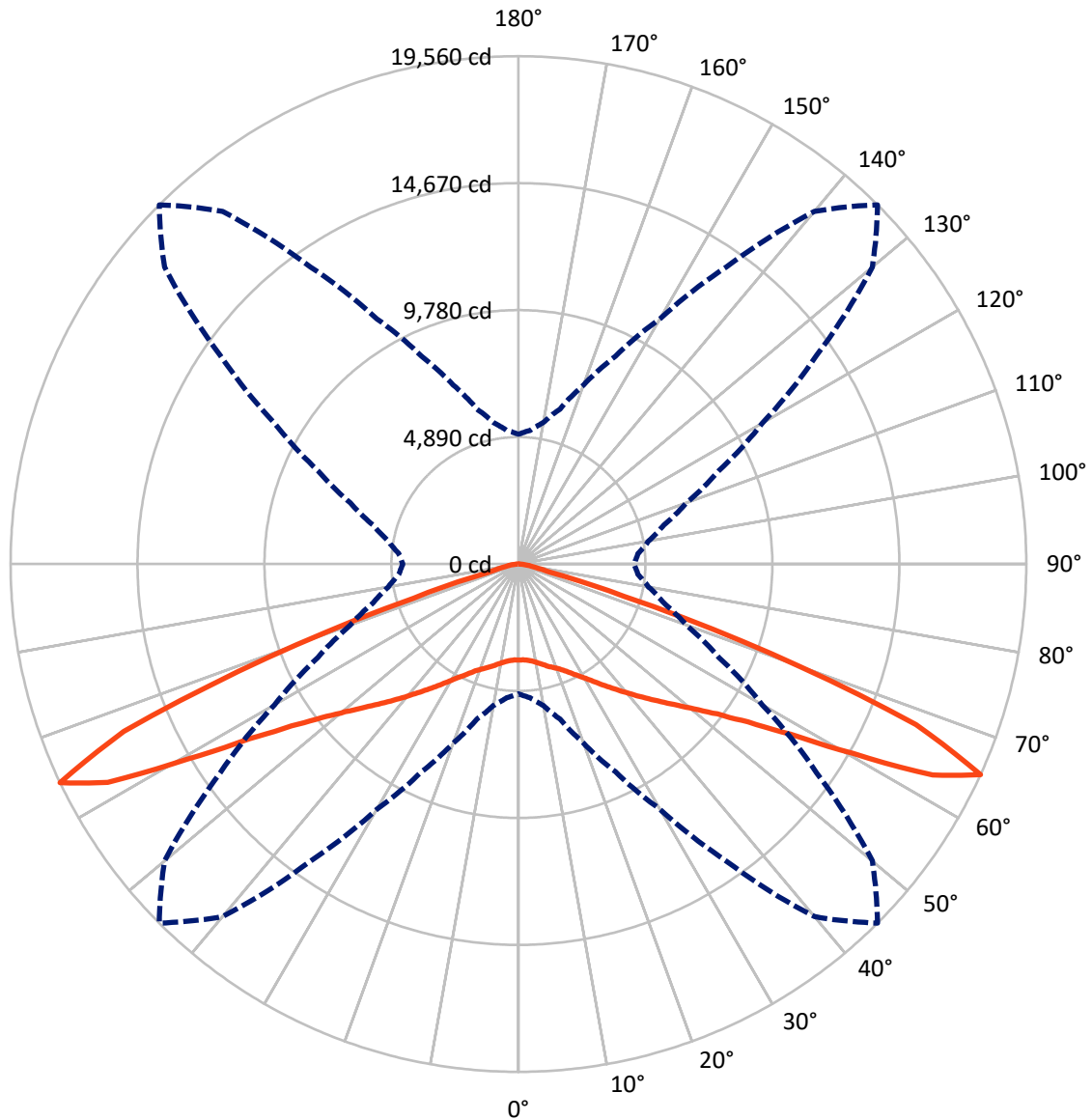


Based on 30 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - Full Cutoff

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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	16337.0	0.0	16337.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16337.0	0.0	16337.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32674.0	0.0	32674.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.3	1.1
10°-20°	1155.7	3.5
20°-30°	2160.9	6.6
30°-40°	3654.7	11.2
40°-50°	5975.9	18.3
50°-60°	9502.6	29.1
60°-70°	8589.7	26.3
70°-80°	1087.1	3.3
80°-90°	187.0	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°	32674.0	100.0
0°-180°	32674.0	100.0

Coefficient of Utilization



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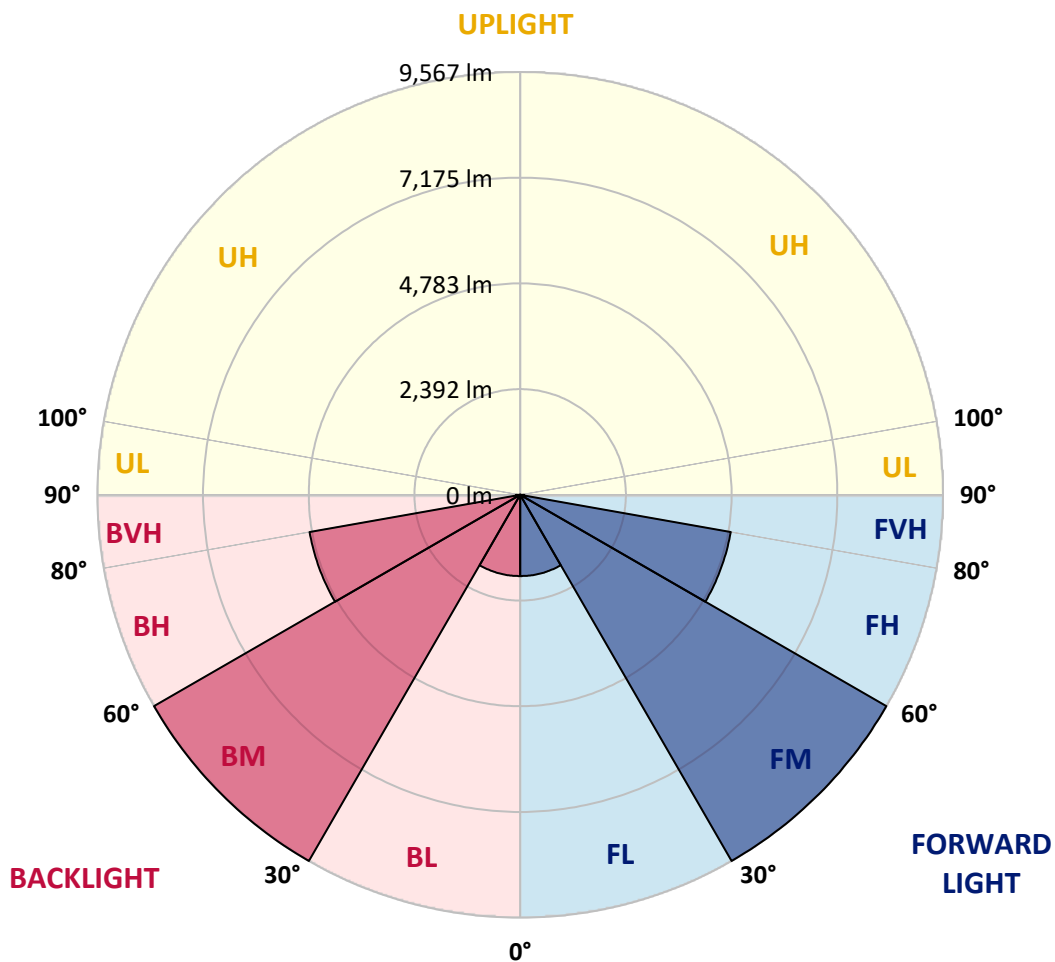
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1838.5	5.6			
FM (30°-60°)	9566.6	29.3			
FH (60°-80°)	4838.4	14.8			G2/5000
FVH (80°-90°)	93.5	0.3			G1/100
BL (0°-30°)	1838.5	5.6	B3/2500		
BM (30°-60°)	9566.6	29.3	B5		
BH (60°-80°)	4838.4	14.8	B4/5000		G2/5000
BVH (80°-90°)	93.5	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°	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1
2.5°	3700.1	3703.2	3706.3	3703.2	3706.3	3701.7	3698.6	3703.2	3698.6	3694.0	3697.1
5°	3732.3	3733.8	3733.8	3729.2	3733.8	3730.7	3726.2	3732.3	3727.7	3723.1	3726.2
7.5°	3785.8	3792.0	3787.4	3782.8	3785.8	3782.8	3779.7	3781.2	3779.7	3775.1	3776.7
10°	3857.8	3862.3	3859.3	3857.8	3860.8	3859.3	3856.2	3854.7	3856.2	3851.6	3851.6
12.5°	3945.0	3943.5	3941.9	3943.5	3948.0	3948.0	3946.5	3948.0	3951.1	3952.6	3949.6
15°	4030.7	4033.7	4033.7	4033.7	4042.9	4050.6	4055.2	4058.2	4064.3	4065.9	4059.7
17.5°	4137.8	4137.8	4136.3	4137.8	4147.0	4159.2	4163.8	4169.9	4176.0	4180.6	4173.0
20°	4257.2	4260.2	4260.2	4263.3	4275.5	4289.3	4289.3	4292.3	4289.3	4292.3	4287.8
22.5°	4402.5	4411.7	4411.7	4413.2	4425.5	4442.3	4437.7	4442.3	4434.7	4440.8	4434.7
25°	4592.3	4606.0	4603.0	4603.0	4612.2	4622.9	4624.4	4633.6	4632.1	4639.7	4635.1
27.5°	4806.5	4827.9	4834.1	4832.5	4838.6	4849.4	4852.4	4863.1	4857.0	4863.1	4860.1
30°	5063.6	5072.8	5085.0	5089.6	5097.3	5108.0	5108.0	5109.5	5101.8	5111.0	5115.6
32.5°	5329.9	5346.7	5358.9	5386.5	5400.2	5407.9	5406.4	5409.4	5401.8	5414.0	5423.2
35°	5681.8	5694.1	5713.9	5735.4	5753.7	5752.2	5747.6	5749.1	5749.1	5759.9	5769.0
37.5°	6105.7	6108.8	6134.8	6165.4	6174.6	6165.4	6137.8	6131.7	6117.9	6131.7	6147.0
40°	6554.1	6564.8	6616.8	6636.7	6641.3	6624.4	6584.7	6561.7	6531.1	6547.9	6569.4
42.5°	7023.8	7045.3	7092.7	7127.9	7143.2	7132.5	7077.4	7042.2	7002.4	7011.6	7033.0
45°	7544.1	7570.1	7637.5	7671.1	7700.2	7683.4	7629.8	7576.3	7513.5	7518.1	7551.8
47.5°	8125.6	8151.6	8238.9	8295.5	8310.8	8307.7	8248.0	8174.6	8088.9	8085.8	8114.9
50°	8777.5	8803.5	8912.2	8999.4	9043.8	9039.2	8968.8	8864.7	8760.7	8762.2	8798.9
52.5°	9414.1	9446.2	9559.5	9709.4	9796.7	9859.4	9816.5	9718.6	9591.6	9594.7	9628.3
55°	10010.9	10064.4	10194.5	10398.0	10560.2	10736.2	10786.7	10783.7	10707.1	10728.6	10762.2
57.5°	10300.1	10379.7	10580.1	10901.5	11232.0	11590.1	11893.1	12119.6	12216.0	12361.3	12327.7
60°	9752.3	9879.3	10174.6	10647.5	11300.9	12047.6	12848.0	13629.9	14297.1	14800.6	14511.3
62.5°	7984.8	8150.1	8508.2	9114.2	10102.7	11297.8	12829.6	14678.1	16692.0	17907.0	17039.3
65°	4996.3	5167.6	5531.8	6180.7	7337.5	8823.4	10901.5	13965.0	17727.9	19559.6	17793.7
67.5°	1948.0	2041.4	2238.8	2653.5	3522.6	4844.8	6930.5	10407.2	14907.7	16512.9	14630.7
70°	976.3	985.5	1022.2	1098.7	1285.4	1669.5	2540.2	4824.9	8549.5	10326.1	8241.9
72.5°	705.4	707.0	725.3	759.0	818.7	904.4	1069.6	1476.7	2780.5	4249.5	2606.0
75°	540.2	546.3	557.0	575.4	607.5	650.4	710.0	850.8	1054.3	1222.7	1028.3
77.5°	416.2	428.5	436.1	453.0	472.8	501.9	518.8	572.3	665.7	700.9	690.1
80°	316.8	327.5	344.3	358.1	371.9	385.6	379.5	404.0	453.0	482.0	466.7
82.5°	202.0	214.2	263.2	275.4	281.6	290.7	280.0	281.6	303.0	321.4	303.0
85°	130.1	137.7	166.8	182.1	183.6	189.8	185.2	174.4	174.4	159.1	179.0
87.5°	59.7	61.2	75.0	88.8	91.8	82.6	81.1	78.0	62.7	59.7	64.3
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°	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1
2.5°	3695.6	3698.6	3700.1	3704.7	3706.3	3706.3	3707.8	3710.9
5°	3724.6	3729.2	3730.7	3736.9	3738.4	3736.9	3739.9	3741.5
7.5°	3776.7	3784.3	3787.4	3793.5	3788.9	3795.0	3796.5	3796.5
10°	3853.2	3860.8	3862.3	3868.5	3865.4	3868.5	3868.5	3865.4
12.5°	3954.2	3955.7	3951.1	3955.7	3949.6	3952.6	3948.0	3945.0
15°	4065.9	4061.3	4050.6	4050.6	4041.4	4042.9	4041.4	4039.9
17.5°	4174.5	4165.3	4157.7	4154.6	4147.0	4145.4	4140.9	4140.9
20°	4293.9	4289.3	4284.7	4278.6	4270.9	4263.3	4261.7	4264.8
22.5°	4437.7	4436.2	4436.2	4433.1	4422.4	4414.8	4410.2	4410.2
25°	4630.5	4616.8	4616.8	4615.2	4610.6	4606.0	4596.9	4601.5
27.5°	4847.8	4840.2	4846.3	4844.8	4840.2	4840.2	4834.1	4834.1
30°	5115.6	5112.6	5121.7	5114.1	5098.8	5097.3	5091.1	5083.5
32.5°	5424.7	5421.7	5435.4	5426.3	5401.8	5388.0	5375.8	5369.6
35°	5769.0	5770.6	5787.4	5781.3	5753.7	5744.6	5723.1	5720.1
37.5°	6145.5	6170.0	6199.0	6205.2	6182.2	6176.1	6153.1	6140.9
40°	6587.7	6619.9	6664.2	6674.9	6650.5	6645.9	6613.7	6596.9
42.5°	7059.0	7114.1	7169.2	7178.4	7153.9	7129.4	7098.8	7086.6
45°	7585.4	7651.2	7723.2	7741.5	7704.8	7675.7	7635.9	7635.9
47.5°	8176.1	8258.8	8339.9	8390.4	8356.7	8326.1	8278.6	8248.0
50°	8873.9	8987.2	9092.7	9144.8	9091.2	9033.1	8950.4	8922.9
52.5°	9749.2	9871.6	9963.4	9935.9	9853.3	9772.2	9681.9	9645.2
55°	10866.3	10907.6	10907.6	10803.6	10638.3	10502.1	10359.8	10312.3
57.5°	12263.4	12104.3	11859.4	11548.8	11158.6	10818.9	10589.3	10480.7
60°	13905.4	13140.2	12275.7	11426.4	10728.6	10153.2	9812.0	9655.9
62.5°	14999.5	12997.9	11265.7	9902.2	8898.4	8205.2	7733.9	7550.2
65°	14018.6	10840.3	8520.4	6889.2	5795.1	5089.6	4622.9	4451.5
67.5°	10268.0	6792.8	4537.2	3251.8	2382.6	1900.6	1709.3	1629.7
70°	4609.1	2391.8	1466.0	1144.6	987.0	905.9	870.7	858.5
72.5°	1389.5	1005.4	847.8	765.1	702.4	662.6	633.5	630.5
75°	838.6	697.8	619.8	570.8	531.0	498.9	483.6	479.0
77.5°	586.1	512.6	475.9	440.7	410.1	385.6	371.9	361.1
80°	411.6	376.4	359.6	339.7	319.8	296.9	277.0	267.8
82.5°	275.4	267.8	267.8	255.6	238.7	217.3	177.5	168.3
85°	177.5	176.0	179.0	174.4	162.2	139.3	114.8	108.6
87.5°	82.6	84.2	93.3	91.8	88.8	73.5	58.1	55.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)