

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: P193394

Luminaire Tested: **GLEON-AF-06-LED-E1-5NQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193394
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-06-LED-E1-5NQ-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29966 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G2

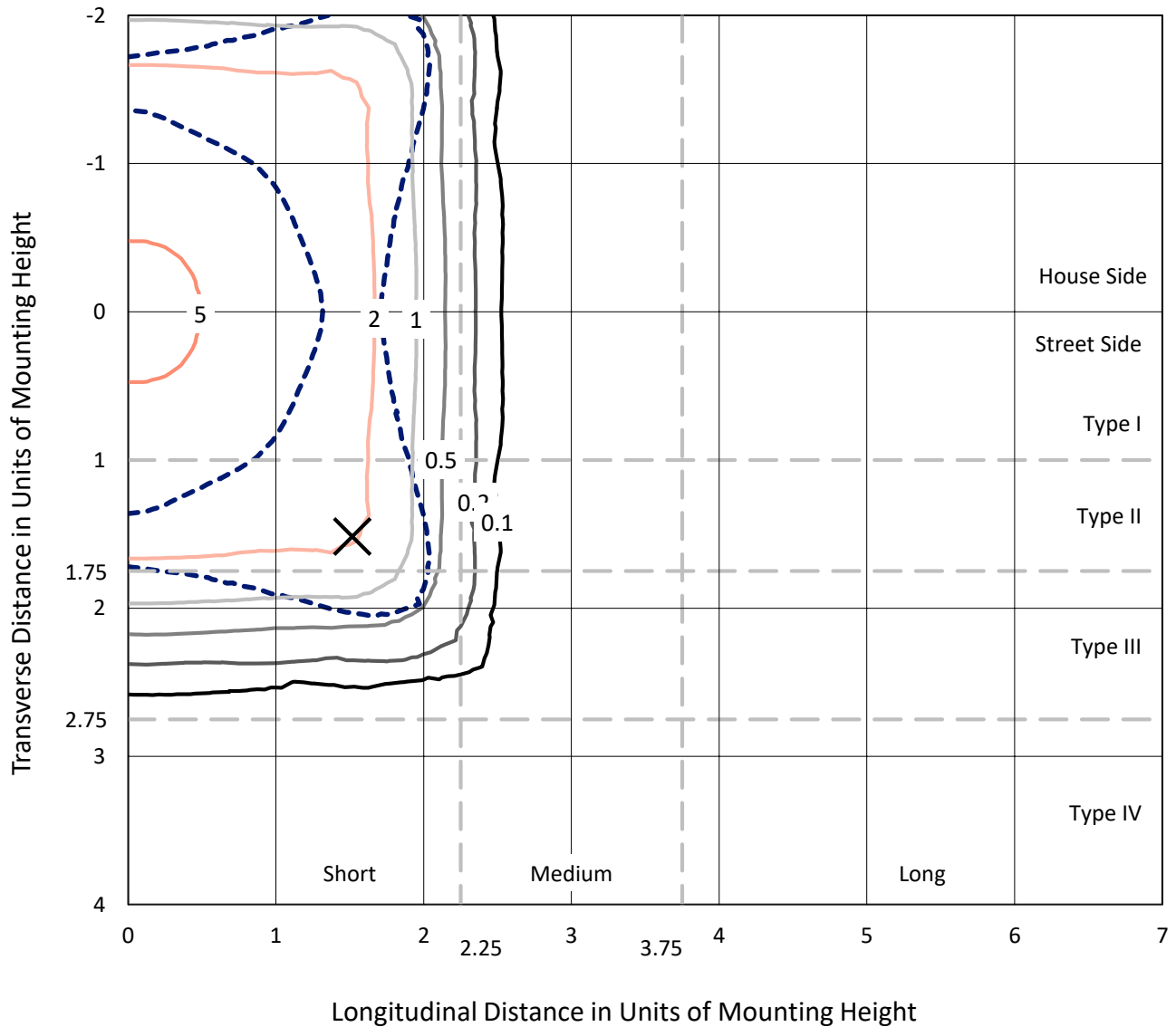
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

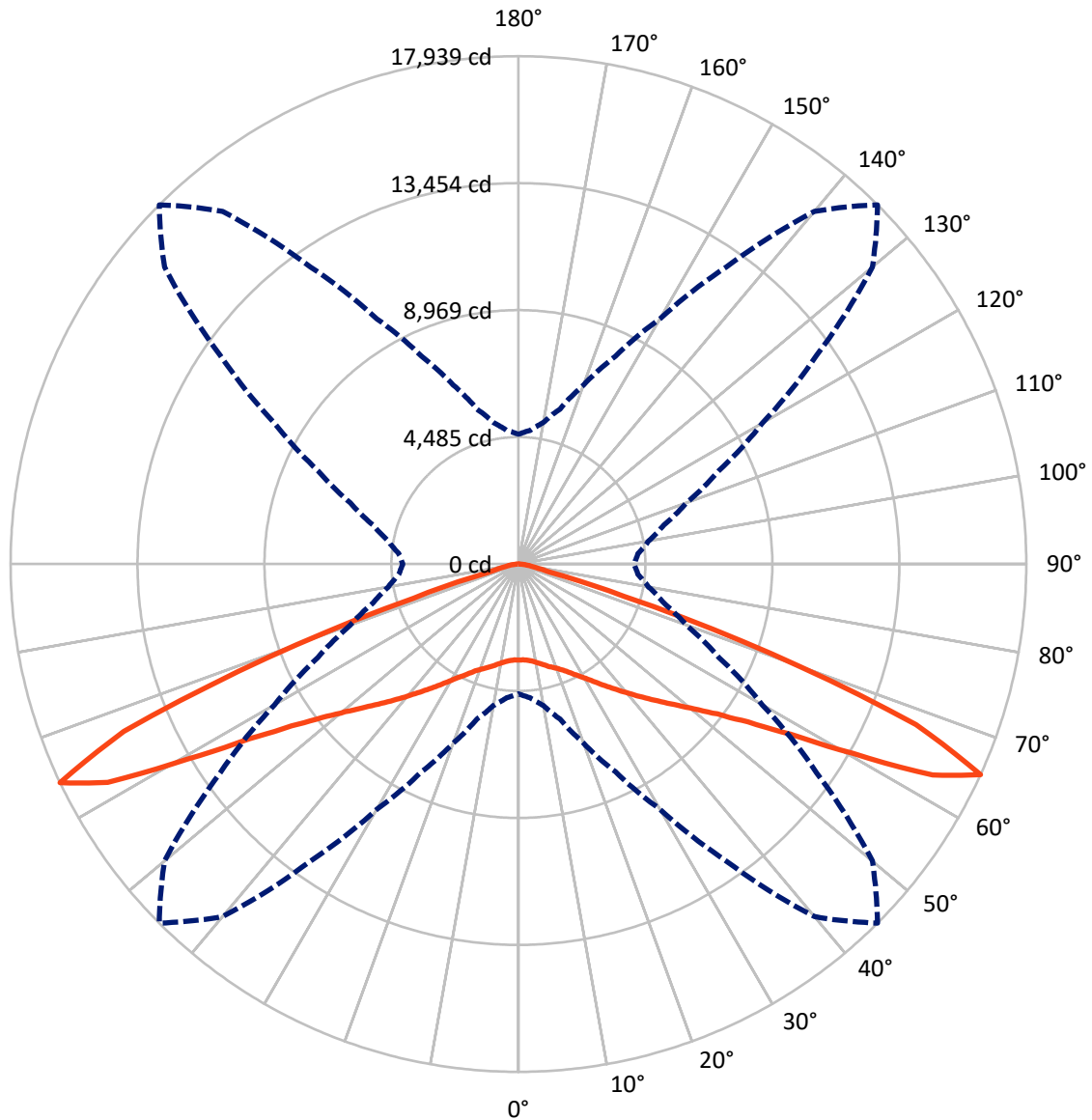
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	14983.0	0.0	14983.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14983.0	0.0	14983.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	29966.0	0.0	29966.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.5	1.1
10°-20°	1059.9	3.5
20°-30°	1981.8	6.6
30°-40°	3351.8	11.2
40°-50°	5480.6	18.3
50°-60°	8715.0	29.1
60°-70°	7877.8	26.3
70°-80°	997.0	3.3
80°-90°	171.5	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°	29966.0	100.0
0°-180°	29966.0	100.0



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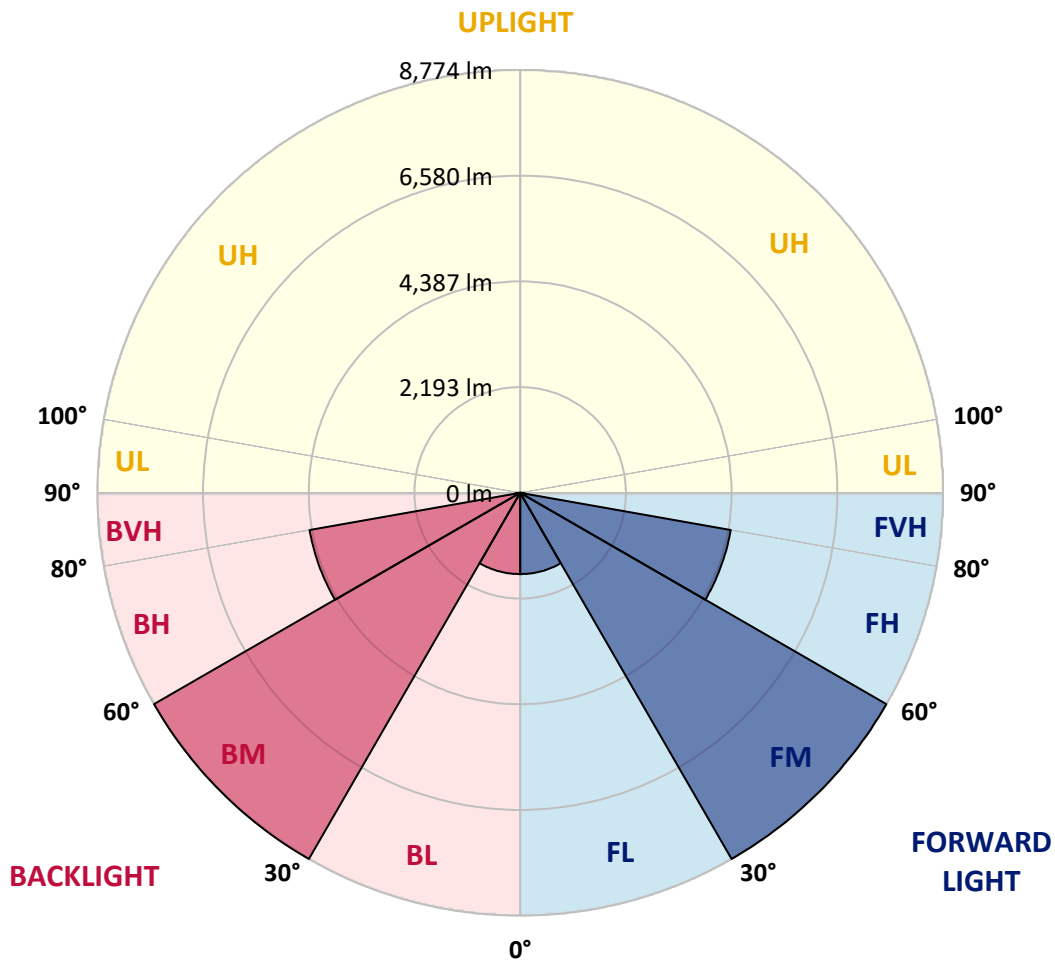
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1686.1	5.6			
FM	(30°-60°)	8773.7	29.3			
FH	(60°-80°)	4437.4	14.8			G2/5000
FVH	(80°-90°)	85.7	0.3			G1/100
BL	(0°-30°)	1686.1	5.6	B3/2500		
BM	(30°-60°)	8773.7	29.3	B5		
BH	(60°-80°)	4437.4	14.8	B4/5000		G2/5000
BVH	(80°-90°)	85.7	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°	3390.7	3390.7	3390.7	3390.7	3390.7	3390.7	3390.7	3390.7	3390.7	3390.7	3390.7
2.5°	3393.5	3396.3	3399.1	3396.3	3399.1	3394.9	3392.1	3396.3	3392.1	3387.9	3390.7
5°	3422.9	3424.4	3424.4	3420.1	3424.4	3421.5	3417.3	3422.9	3418.7	3414.5	3417.3
7.5°	3472.1	3477.7	3473.5	3469.3	3472.1	3469.3	3466.5	3467.9	3466.5	3462.2	3463.6
10°	3538.0	3542.2	3539.4	3538.0	3540.8	3539.4	3536.6	3535.2	3536.6	3532.4	3532.4
12.5°	3618.0	3616.6	3615.2	3616.6	3620.8	3620.8	3619.4	3620.8	3623.6	3625.0	3622.2
15°	3696.6	3699.4	3699.4	3699.4	3707.8	3714.9	3719.1	3721.9	3727.5	3728.9	3723.3
17.5°	3794.9	3794.9	3793.5	3794.9	3803.3	3814.5	3818.7	3824.3	3829.9	3834.2	3827.1
20°	3904.3	3907.1	3907.1	3909.9	3921.2	3933.8	3933.8	3936.6	3933.8	3936.6	3932.4
22.5°	4037.6	4046.1	4046.1	4047.5	4058.7	4074.1	4069.9	4074.1	4067.1	4072.7	4067.1
25°	4211.7	4224.3	4221.5	4221.5	4229.9	4239.7	4241.1	4249.6	4248.2	4255.2	4251.0
27.5°	4408.2	4427.8	4433.4	4432.0	4437.6	4447.4	4450.3	4460.1	4454.5	4460.1	4457.3
30°	4643.9	4652.3	4663.6	4667.8	4674.8	4684.6	4684.6	4686.0	4679.0	4687.4	4691.6
32.5°	4888.1	4903.6	4914.8	4940.0	4952.7	4959.7	4958.3	4961.1	4954.1	4965.3	4973.7
35°	5210.9	5222.1	5240.4	5260.0	5276.9	5275.5	5271.3	5272.7	5272.7	5282.5	5290.9
37.5°	5599.7	5602.5	5626.3	5654.4	5662.8	5654.4	5629.1	5623.5	5610.9	5623.5	5637.5
40°	6010.9	6020.7	6068.4	6086.6	6090.9	6075.4	6038.9	6017.9	5989.8	6005.2	6024.9
42.5°	6441.7	6461.4	6504.9	6537.1	6551.2	6541.4	6490.8	6458.6	6422.1	6430.5	6450.1
45°	6918.9	6942.7	7004.5	7035.4	7062.0	7046.6	6997.5	6948.3	6890.8	6895.0	6925.9
47.5°	7452.2	7476.0	7556.0	7608.0	7622.0	7619.2	7564.4	7497.1	7418.5	7415.7	7442.3
50°	8050.0	8073.9	8173.5	8253.5	8294.2	8290.0	8225.5	8130.0	8034.6	8036.0	8069.7
52.5°	8633.9	8663.3	8767.2	8904.7	8984.7	9042.3	9003.0	8913.1	8796.7	8799.5	8830.3
55°	9181.2	9230.3	9349.6	9536.3	9685.0	9846.4	9892.7	9889.9	9819.7	9839.4	9870.3
57.5°	9446.4	9519.4	9703.3	9998.0	10301.1	10629.5	10907.4	11115.1	11203.5	11336.8	11306.0
60°	8944.0	9060.5	9331.4	9765.0	10364.3	11049.1	11783.1	12500.3	13112.2	13573.9	13308.7
62.5°	7323.1	7474.6	7803.0	8358.8	9265.4	10361.5	11766.3	13461.6	15308.5	16422.9	15627.1
65°	4582.2	4739.4	5073.4	5668.4	6729.4	8092.1	9998.0	12807.6	16258.7	17938.5	16319.0
67.5°	1786.6	1872.2	2053.2	2433.5	3230.7	4443.2	6356.1	9544.7	13672.1	15144.3	13418.1
70°	895.4	903.8	937.5	1007.7	1178.9	1531.1	2329.7	4425.0	7840.9	9470.3	7558.8
72.5°	647.0	648.4	665.2	696.1	750.8	829.4	981.0	1354.3	2550.0	3897.3	2390.0
75°	495.4	501.0	510.8	527.7	557.2	596.5	651.2	780.3	967.0	1121.3	943.1
77.5°	381.7	393.0	400.0	415.4	433.7	460.3	475.8	524.9	610.5	642.8	632.9
80°	290.5	300.3	315.8	328.4	341.0	353.7	348.0	370.5	415.4	442.1	428.0
82.5°	185.3	196.5	241.4	252.6	258.2	266.7	256.8	258.2	277.9	294.7	277.9
85°	119.3	126.3	153.0	167.0	168.4	174.0	169.8	160.0	160.0	146.0	164.2
87.5°	54.7	56.1	68.8	81.4	84.2	75.8	74.4	71.6	57.5	54.7	58.9
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°	3390.7	3390.7	3390.7	3390.7	3390.7	3390.7	3390.7	3390.7
2.5°	3389.3	3392.1	3393.5	3397.7	3399.1	3399.1	3400.5	3403.3
5°	3415.9	3420.1	3421.5	3427.2	3428.6	3427.2	3430.0	3431.4
7.5°	3463.6	3470.7	3473.5	3479.1	3474.9	3480.5	3481.9	3481.9
10°	3533.8	3540.8	3542.2	3547.9	3545.0	3547.9	3547.9	3545.0
12.5°	3626.4	3627.8	3623.6	3627.8	3622.2	3625.0	3620.8	3618.0
15°	3728.9	3724.7	3714.9	3714.9	3706.4	3707.8	3706.4	3705.0
17.5°	3828.5	3820.1	3813.1	3810.3	3803.3	3801.9	3797.7	3797.7
20°	3938.0	3933.8	3929.6	3924.0	3917.0	3909.9	3908.5	3911.3
22.5°	4069.9	4068.5	4068.5	4065.7	4055.9	4048.9	4044.7	4044.7
25°	4246.8	4234.1	4234.1	4232.7	4228.5	4224.3	4215.9	4220.1
27.5°	4446.0	4439.0	4444.6	4443.2	4439.0	4439.0	4433.4	4433.4
30°	4691.6	4688.8	4697.3	4690.2	4676.2	4674.8	4669.2	4662.2
32.5°	4975.1	4972.3	4985.0	4976.5	4954.1	4941.5	4930.2	4924.6
35°	5290.9	5292.3	5307.7	5302.1	5276.9	5268.4	5248.8	5246.0
37.5°	5636.1	5658.6	5685.3	5690.9	5669.8	5664.2	5643.2	5631.9
40°	6041.7	6071.2	6111.9	6121.7	6099.3	6095.1	6065.6	6050.2
42.5°	6474.0	6524.5	6575.0	6583.5	6561.0	6538.5	6510.5	6499.2
45°	6956.8	7017.1	7083.1	7099.9	7066.2	7039.6	7003.1	7003.1
47.5°	7498.5	7574.3	7648.7	7695.0	7664.1	7636.0	7592.5	7564.4
50°	8138.4	8242.3	8339.1	8386.9	8337.7	8284.4	8208.6	8183.4
52.5°	8941.2	9053.5	9137.7	9112.4	9036.6	8962.3	8879.5	8845.8
55°	9965.7	10003.6	10003.6	9908.2	9756.6	9631.7	9501.2	9457.7
57.5°	11247.0	11101.1	10876.5	10591.6	10233.8	9922.2	9711.7	9612.0
60°	12752.9	12051.2	11258.3	10479.4	9839.4	9311.7	8998.7	8855.6
62.5°	13756.3	11920.7	10332.0	9081.5	8160.9	7525.2	7092.9	6924.5
65°	12856.8	9941.8	7814.3	6318.2	5314.8	4667.8	4239.7	4082.6
67.5°	9417.0	6229.8	4161.1	2982.3	2185.1	1743.1	1567.6	1494.6
70°	4227.1	2193.5	1344.5	1049.8	905.2	830.8	798.5	787.3
72.5°	1274.3	922.0	777.5	701.7	644.2	607.7	581.0	578.2
75°	769.1	640.0	568.4	523.5	487.0	457.5	443.5	439.3
77.5°	537.5	470.1	436.5	404.2	376.1	353.7	341.0	331.2
80°	377.5	345.2	329.8	311.6	293.3	272.3	254.0	245.6
82.5°	252.6	245.6	245.6	234.4	218.9	199.3	162.8	154.4
85°	162.8	161.4	164.2	160.0	148.8	127.7	105.3	99.6
87.5°	75.8	77.2	85.6	84.2	81.4	67.4	53.3	50.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)