

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: P193718

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193718
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48080 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

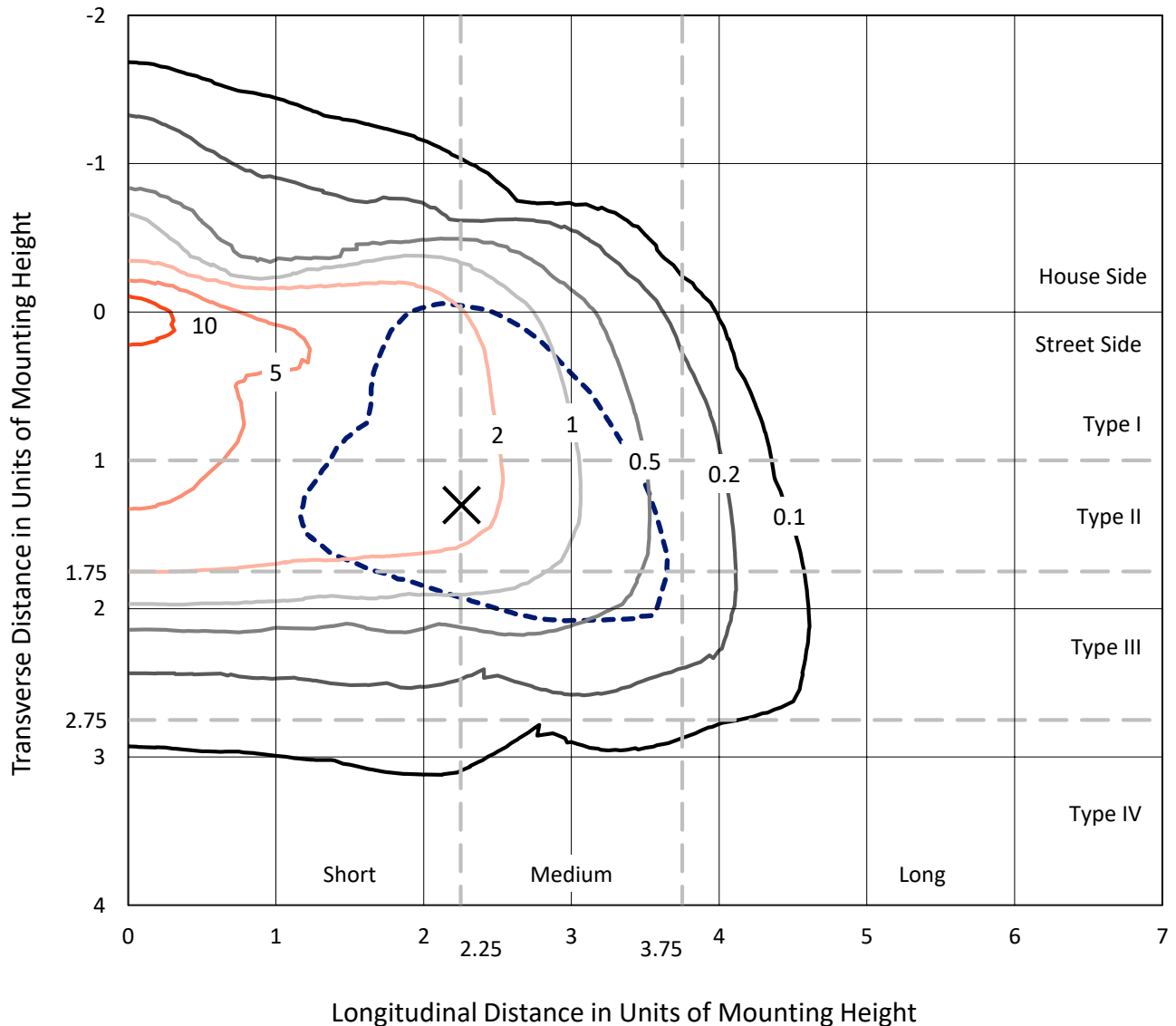
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

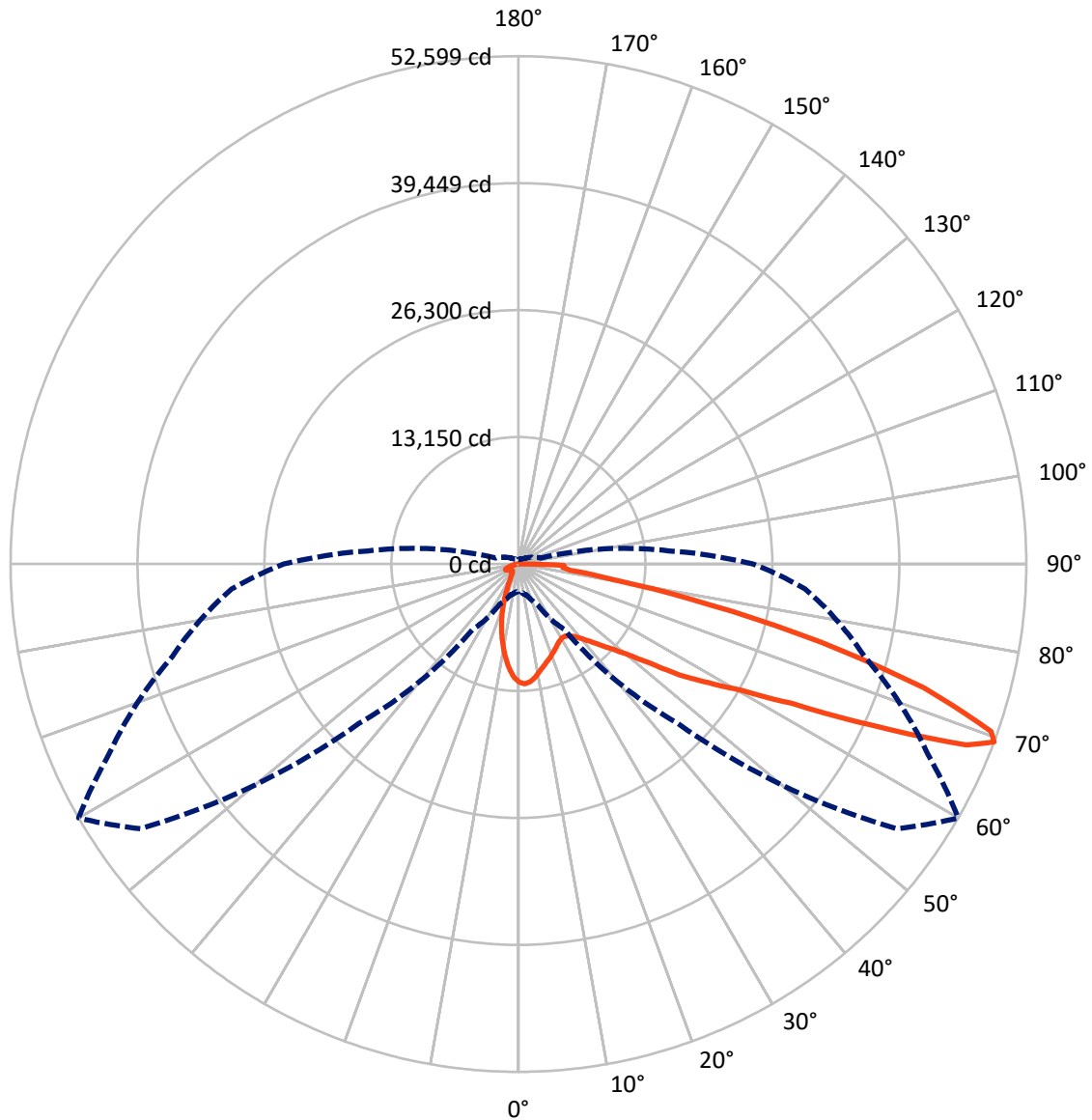
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.6 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6840.3	0.0	6840.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	41239.7	0.0	41239.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	48080.0	0.0	48080.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1035.9	2.2
10°-20°	2207.1	4.6
20°-30°	2812.2	5.8
30°-40°	3866.1	8.0
40°-50°	6273.1	13.0
50°-60°	10060.4	20.9
60°-70°	13389.6	27.8
70°-80°	7229.4	15.0
80°-90°	1206.3	2.5
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°	48080.0	100.0
0°-180°	48080.0	100.0

Coefficient of Utilization



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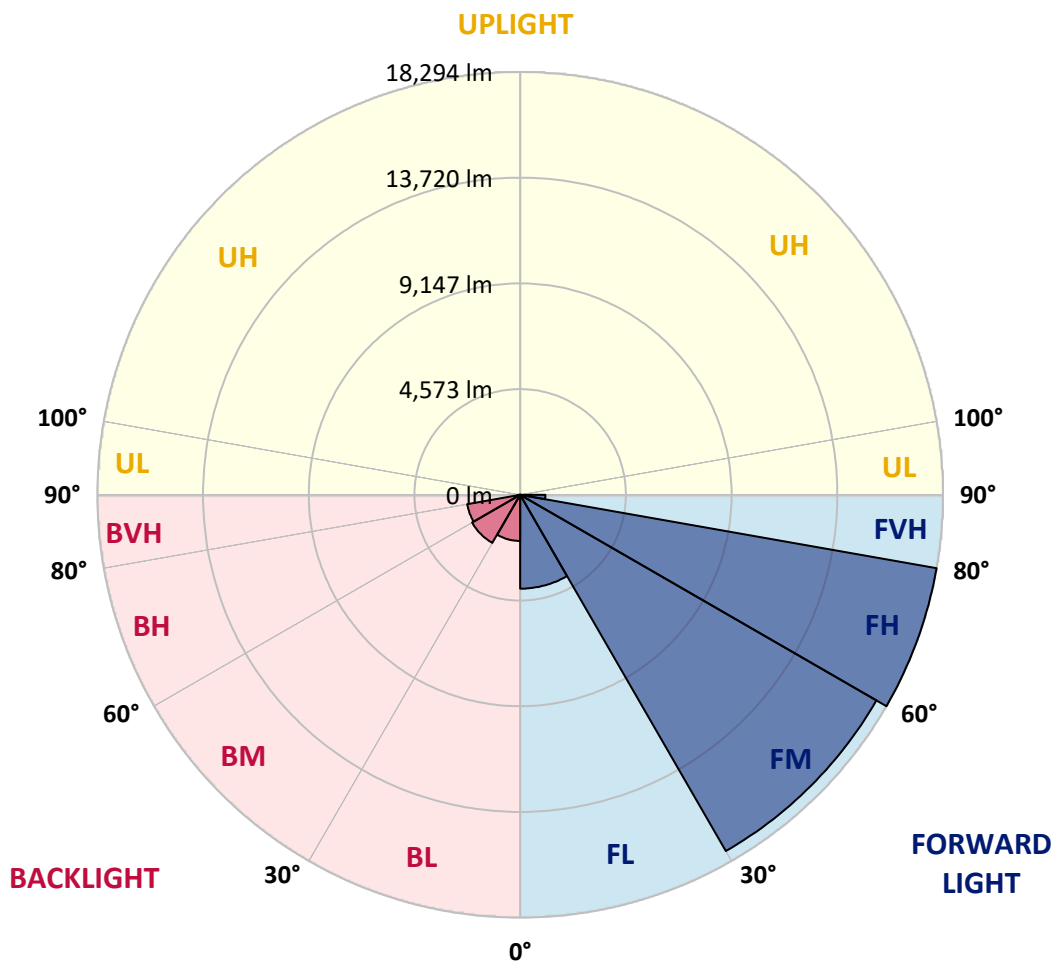
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4059.7	8.4			
FM	(30°-60°)	17796.4	37.0			
FH	(60°-80°)	18293.5	38.0			G5
FVH	(80°-90°)	1090.1	2.3			G5
BL	(0°-30°)	1995.5	4.2	B3/2500		
BM	(30°-60°)	2403.1	5.0	B2/2500		
BH	(60°-80°)	2325.5	4.8	B3/2500		G3/2500
BVH	(80°-90°)	116.2	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	12251.5	12251.5	12251.5	12251.5	12251.5	12251.5	12251.5	12251.5	12251.5	12251.5	12251.5
2.5°	12502.4	12530.2	12518.6	12511.6	12532.5	12500.0	12432.7	12411.8	12379.3	12302.6	12172.5
5°	12033.2	12116.8	12112.2	12174.9	12279.4	12307.3	12277.1	12281.7	12221.3	12126.1	11910.1
7.5°	11222.6	11257.5	11276.0	11413.1	11603.5	11756.8	11886.9	11928.7	11900.8	11819.5	11540.8
10°	10386.5	10414.4	10458.5	10618.8	10860.3	11071.7	11317.8	11459.5	11519.9	11506.0	11194.7
12.5°	9668.8	9696.7	9754.8	9935.9	10223.9	10484.0	10841.7	11018.2	11162.2	11248.2	10913.7
15°	9025.5	9085.9	9141.6	9350.6	9673.5	10014.9	10419.0	10642.0	10864.9	11057.7	10665.2
17.5°	8523.8	8584.2	8616.7	8807.2	9150.9	9569.0	10042.8	10305.2	10583.9	10899.8	10419.0
20°	8233.5	8261.4	8247.4	8354.3	8663.2	9106.8	9668.8	9973.1	10309.9	10751.1	10172.8
22.5°	8152.2	8154.5	8103.4	8091.8	8291.5	8665.5	9269.3	9638.6	10052.0	10653.6	9961.5
25°	8349.6	8342.6	8203.3	8089.5	8110.4	8328.7	8883.8	9313.5	9836.0	10632.7	9798.9
27.5°	8788.6	8809.5	8602.8	8389.1	8177.7	8170.8	8591.2	9044.1	9659.5	10727.9	9729.2
30°	9404.1	9438.9	9218.2	8946.5	8549.4	8221.9	8477.4	8883.8	9550.4	10925.3	9717.6
32.5°	10077.6	10114.8	9947.5	9661.9	9141.6	8537.7	8556.3	8897.7	9545.7	11201.7	9796.6
35°	10795.3	10837.1	10751.1	10509.6	9931.3	9120.7	8858.3	9123.0	9696.7	11624.4	10007.9
37.5°	11596.6	11661.6	11684.8	11454.9	10837.1	9889.5	9353.0	9550.4	10038.1	12212.0	10395.8
40°	12750.9	12841.4	12834.5	12504.7	11875.3	10927.7	10117.1	10168.2	10570.0	12997.1	11015.9
42.5°	14961.9	14980.5	14402.2	13684.5	13018.0	12019.3	11018.2	10976.4	11303.9	13991.1	11928.7
45°	17774.6	17697.9	16411.2	15024.7	14211.8	13273.4	12191.1	11986.7	12235.3	15203.5	13071.4
47.5°	20108.7	19932.2	18306.4	16392.6	15475.2	14636.8	13568.4	13210.7	13347.8	16578.4	14548.5
50°	20919.3	20786.9	19439.8	17530.7	16671.3	16299.7	15263.9	14757.6	14794.7	18218.2	16278.8
52.5°	20745.1	20726.5	19827.7	18280.9	17790.8	18046.3	17665.4	16980.3	16617.9	20039.1	18146.2
55°	20334.0	20373.5	20048.4	19154.2	19070.6	19732.5	20803.2	20296.9	19170.4	21876.2	20076.2
57.5°	18905.7	19007.8	19723.2	20252.7	21130.7	22115.4	23330.1	23186.1	21918.0	23862.0	22370.9
60°	15231.4	15468.3	17386.7	20039.1	23251.2	26330.9	26874.4	26539.9	24751.5	26326.2	25401.9
62.5°	10672.2	10918.4	13199.1	17349.5	22902.8	31092.1	33210.3	31768.0	28820.7	29956.4	29324.7
65°	5713.5	5832.0	7573.9	12037.8	19335.3	32074.6	42470.4	40275.5	35263.5	34432.0	32680.8
67.5°	3151.7	3216.7	3883.3	6078.1	12383.9	28244.7	48369.7	50028.0	43315.8	37411.8	32069.9
69°	2849.8	2910.2	3346.8	4603.3	8286.9	23353.4	47793.7	52599.1	46846.1	37116.9	29812.4
70°	2787.1	2842.8	3235.3	4243.3	6707.6	19249.4	45863.6	51941.8	47686.8	36060.1	27842.9
72.5°	2508.4	2568.8	2949.7	3811.3	5732.1	9596.8	36329.5	43917.3	43294.9	31266.3	21119.1
75°	2338.8	2394.6	3040.2	3732.4	5488.2	6073.5	23950.3	32367.2	31826.1	21871.6	11387.5
77.5°	1001.0	996.4	1409.8	3158.7	5569.5	5880.7	12869.3	20220.2	18448.1	9348.3	3270.2
80°	668.9	657.3	668.9	929.0	5107.3	5913.2	6742.4	10263.4	7752.7	2382.9	1611.9
82.5°	576.0	566.7	587.6	566.7	1795.3	6749.4	5732.1	5458.0	3685.9	1354.1	799.0
85°	387.9	371.6	506.3	508.6	847.7	5996.9	6456.7	4610.3	2982.2	803.6	394.8
87.5°	185.8	181.2	295.0	360.0	497.0	2436.4	7244.1	4724.1	3007.7	411.1	188.1
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°	12251.5	12251.5	12251.5	12251.5	12251.5	12251.5	12251.5	12251.5	12251.5	12251.5	12251.5
2.5°	12133.1	12037.8	11944.9	11833.5	11717.3	11587.3	11522.2	11457.2	11440.9	11422.4	11357.3
5°	11798.6	11663.9	11431.6	11176.2	10906.8	10644.3	10444.6	10319.1	10223.9	10175.1	10089.2
7.5°	11366.6	11169.2	10762.8	10321.5	9868.6	9455.1	9097.5	8872.2	8658.5	8558.6	8444.8
10°	10955.5	10660.6	10028.8	9378.5	8728.2	8103.4	7515.8	7100.1	6730.8	6524.1	6377.8
12.5°	10602.5	10198.4	9322.8	8442.5	7550.6	6661.1	5780.9	5088.7	4510.4	4206.2	4050.5
15°	10258.8	9771.0	8651.5	7534.4	6389.4	5179.3	4022.7	3237.7	2759.2	2568.8	2503.7
17.5°	9947.5	9322.8	7978.0	6619.3	5190.9	3727.7	2703.5	2271.5	2088.0	2025.3	2004.4
20°	9610.8	8869.9	7278.9	5662.4	3941.4	2605.9	2111.2	1920.8	1846.4	1827.9	1818.6
22.5°	9285.6	8423.9	6610.0	4638.2	2831.2	2011.3	1813.9	1735.0	1723.3	1739.6	1739.6
25°	9009.2	8024.5	5887.7	3567.5	2078.7	1693.1	1623.5	1604.9	1649.0	1709.4	1721.0
27.5°	8802.5	7697.0	5118.9	2633.8	1656.0	1472.5	1470.2	1500.4	1609.5	1725.7	1748.9
30°	8660.8	7385.7	4296.7	1899.9	1388.9	1296.0	1333.2	1398.2	1558.4	1723.3	1767.5
32.5°	8588.8	7155.8	3439.7	1470.2	1189.2	1138.1	1200.8	1279.7	1437.7	1591.0	1649.0
35°	8644.6	6986.3	2631.5	1226.3	1049.8	1010.3	1075.3	1152.0	1244.9	1309.9	1354.1
37.5°	8853.6	6918.9	1985.8	1098.6	954.6	917.4	968.5	1012.6	1049.8	1068.4	1089.3
40°	9304.2	6990.9	1591.0	1033.5	901.2	854.7	875.6	891.9	915.1	933.7	943.0
42.5°	9968.4	7206.9	1426.1	1008.0	873.3	805.9	801.3	808.3	838.4	873.3	880.3
45°	10897.5	7587.8	1414.4	1024.2	859.3	766.4	745.5	754.8	801.3	854.7	864.0
47.5°	12084.3	8168.5	1507.3	1073.0	871.0	745.5	710.7	722.3	780.4	852.4	864.0
50°	13522.0	8979.0	1663.0	1145.0	922.1	750.2	699.1	706.1	766.4	845.4	857.0
52.5°	15219.7	10128.7	1832.5	1214.7	975.5	780.4	708.4	692.1	747.9	817.5	831.5
55°	17108.0	11603.5	2006.7	1277.4	1003.3	817.5	727.0	673.5	713.0	771.1	782.7
57.5°	19425.9	13666.0	2308.6	1337.8	1021.9	843.1	745.5	655.0	668.9	710.7	720.0
60°	22563.7	16583.1	2840.5	1437.7	1063.7	852.4	743.2	638.7	624.8	648.0	652.6
62.5°	26323.9	19751.1	3284.1	1563.1	1133.4	859.3	729.3	627.1	587.6	587.6	592.3
65°	28555.9	20598.8	3037.9	1667.6	1191.5	852.4	713.0	615.5	559.7	534.2	536.5
67.5°	26663.0	18116.0	2603.6	1688.5	1189.2	819.9	687.5	594.6	531.9	492.4	490.1
69°	24291.7	15630.8	2408.5	1632.8	1133.4	778.1	655.0	571.4	511.0	469.2	466.8
70°	22380.2	14114.2	2280.8	1572.4	1073.0	747.9	629.4	550.4	494.7	455.2	450.6
72.5°	16271.9	9248.4	1948.6	1351.7	884.9	627.1	543.5	483.1	441.3	418.1	413.4
75°	8131.3	4410.5	1581.7	1096.2	678.2	501.7	445.9	404.1	383.2	378.6	376.3
77.5°	2670.9	2020.6	1131.1	817.5	504.0	392.5	360.0	329.8	325.2	339.1	334.4
80°	1467.9	1175.2	717.7	541.2	343.7	288.0	283.4	267.1	274.1	297.3	292.6
82.5°	747.9	610.8	443.6	325.2	232.3	206.7	225.3	216.0	225.3	246.2	243.9
85°	369.3	334.4	281.0	197.4	153.3	132.4	160.3	167.2	171.9	188.1	188.1
87.5°	213.7	197.4	148.6	92.9	76.6	69.7	92.9	90.6	106.8	116.1	113.8
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)