

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: P191875

Luminaire Tested: **GLEON-AF-07-LED-E1-SL2-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-SL2-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27175 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 226
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

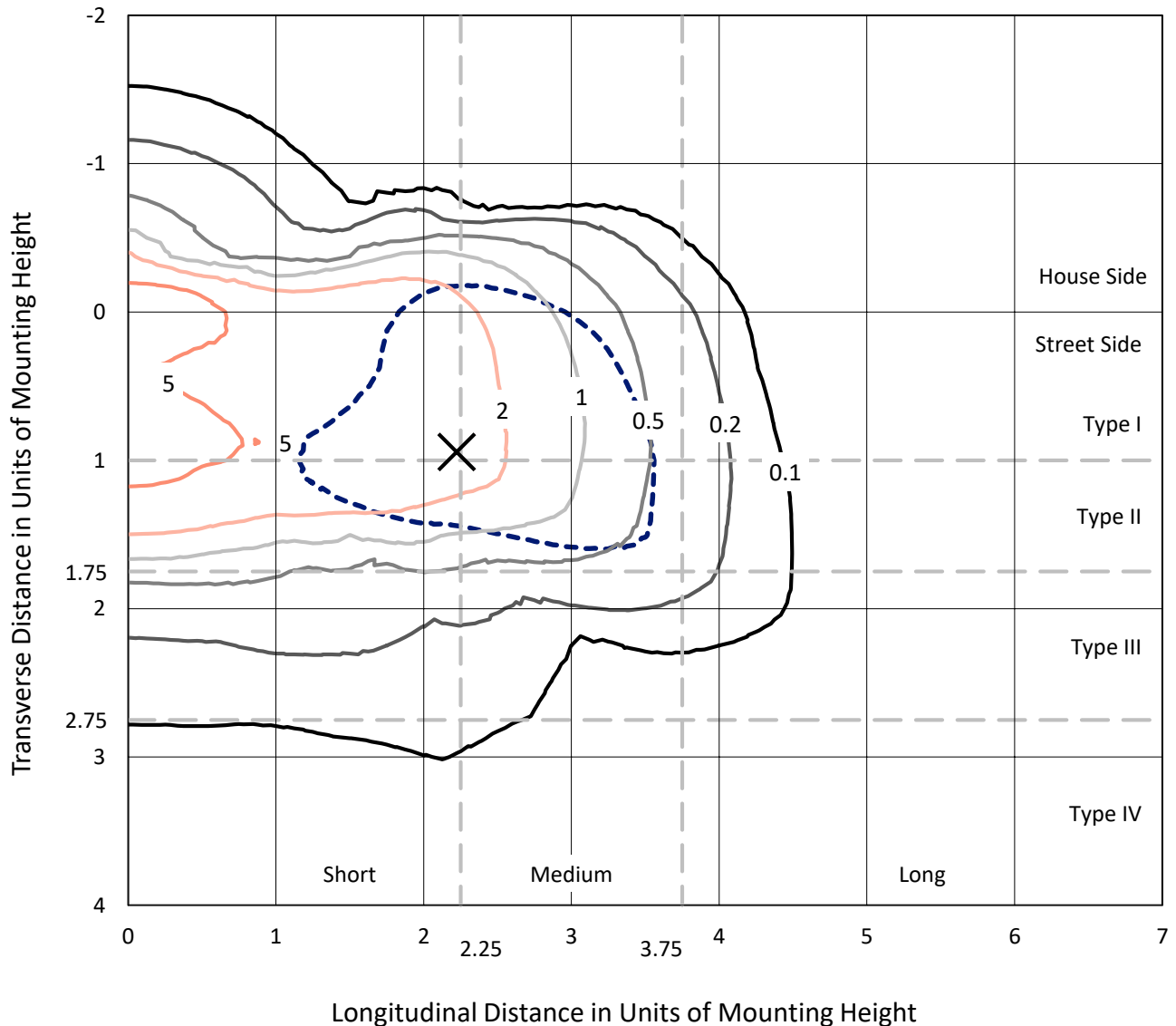


REPORT NUMBER: P191875

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL2-7050-600

Iso-Footcandle Lines of Horizontal Illumination

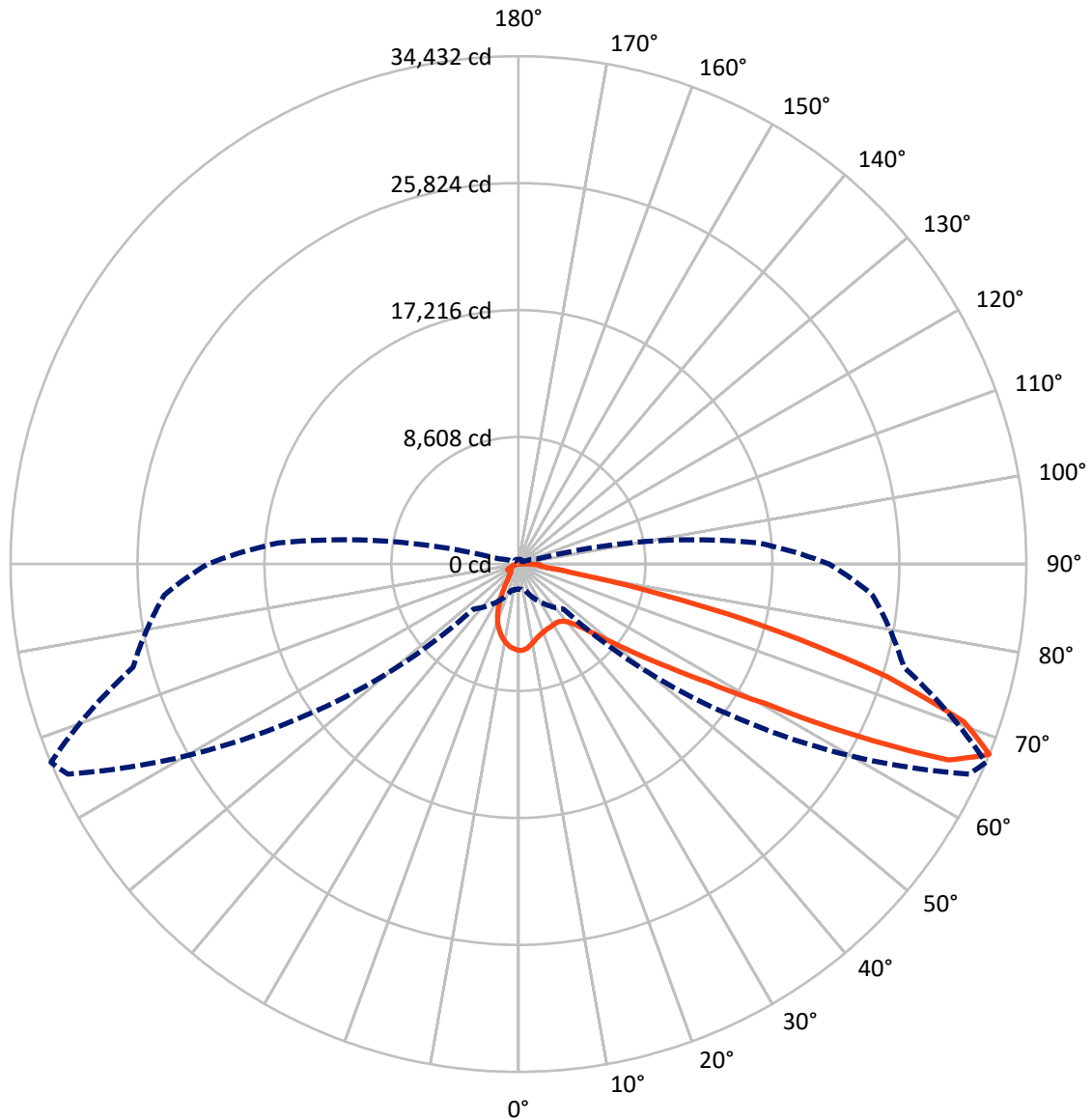
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P191875
CATALOG NUMBER: GLEON-AF-07-LED-E1-SL2-7050-600

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P191875

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL2-7050-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4502.6	0.0	4502.6
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	22672.4	0.0	22672.4
	% Fixture	83.4	0.0	83.4
Total	Lumens	27175.0	0.0	27175.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.1	1.8
10°-20°	1157.1	4.3
20°-30°	1568.5	5.8
30°-40°	2229.8	8.2
40°-50°	3730.5	13.7
50°-60°	5901.6	21.7
60°-70°	7518.0	27.7
70°-80°	3937.9	14.5
80°-90°	631.6	2.3
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°	27175.0	100.0
0°-180°	27175.0	100.0



REPORT NUMBER: P191875

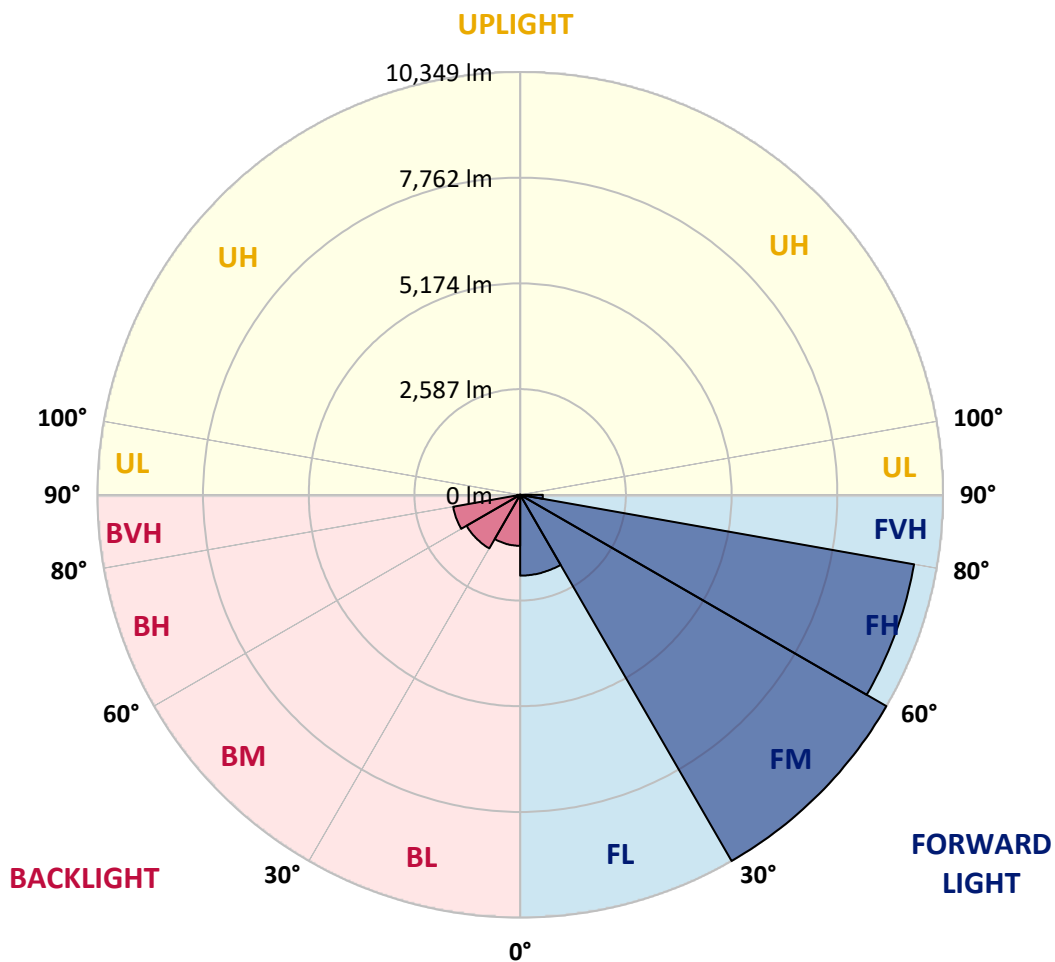
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1977.7	7.3			
FM	(30°-60°)	10348.8	38.1			
FH	(60°-80°)	9790.6	36.0			G4/12000
FVH	(80°-90°)	555.3	2.0			G4/750
BL	(0°-30°)	1248.0	4.6	B3/2500		
BM	(30°-60°)	1513.0	5.6	B2/2500		
BH	(60°-80°)	1665.4	6.1	B3/2500		G3/2500
BVH	(80°-90°)	76.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





REPORT NUMBER: P191875

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL2-7050-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5861.6	5861.6	5861.6	5861.6	5861.6	5861.6	5861.6	5861.6	5861.6	5861.6	5861.6
2.5°	5620.4	5629.7	5659.2	5678.0	5762.4	5798.6	5824.1	5849.5	5853.5	5865.6	5853.5
5°	5030.7	5050.8	5105.8	5167.4	5330.9	5459.6	5594.9	5735.6	5761.1	5852.2	5877.7
7.5°	4573.7	4568.4	4614.0	4687.7	4855.2	5033.4	5270.6	5550.7	5605.6	5810.7	5909.8
10°	4240.1	4236.0	4284.3	4360.7	4520.1	4689.0	4957.0	5340.3	5418.0	5745.0	5940.6
12.5°	3993.5	3994.8	4043.1	4127.5	4289.6	4459.8	4731.9	5136.6	5235.8	5668.6	5972.8
15°	3830.0	3840.7	3879.6	3969.4	4127.5	4297.7	4564.4	4983.8	5095.0	5608.3	6009.0
17.5°	3775.1	3792.5	3805.9	3871.5	4006.9	4177.1	4438.4	4871.2	4989.2	5566.8	6041.2
20°	3826.0	3846.1	3820.6	3843.4	3929.2	4079.3	4339.2	4782.8	4903.4	5519.9	6045.2
22.5°	4044.4	4063.2	3988.1	3922.5	3917.1	4008.2	4257.5	4713.1	4837.7	5485.0	6046.5
25°	4429.0	4441.1	4315.1	4162.3	4013.6	3982.8	4199.9	4664.9	4797.5	5454.2	6021.1
27.5°	4900.7	4910.1	4765.4	4540.2	4241.4	4043.1	4179.8	4636.7	4774.8	5427.4	5978.2
30°	5474.3	5518.5	5324.2	5040.1	4604.6	4221.3	4220.0	4622.0	4749.3	5381.8	5893.7
32.5°	6061.3	6080.0	5946.0	5657.9	5093.7	4534.9	4332.5	4632.7	4742.6	5326.9	5786.5
35°	6656.3	6680.4	6593.3	6361.4	5762.4	4994.5	4552.3	4695.7	4784.1	5308.1	5711.5
37.5°	7426.8	7459.0	7338.4	7070.3	6575.9	5617.7	4918.2	4853.8	4911.5	5361.7	5688.7
40°	8645.0	8630.2	8277.8	7878.4	7465.7	6415.0	5440.8	5121.8	5155.4	5534.6	5758.4
42.5°	10062.8	10026.6	9419.5	8792.4	8443.9	7379.9	6132.3	5586.9	5580.2	5875.0	6003.6
45°	11193.8	11164.3	10617.6	9844.3	9565.6	8478.8	7026.1	6279.7	6230.1	6415.0	6456.6
47.5°	11806.2	11807.6	11492.7	10861.5	10854.8	9875.2	8174.6	7282.1	7196.3	7283.4	7239.2
50°	11591.8	11620.0	11586.5	11385.5	12031.4	11705.7	9674.2	8679.8	8506.9	8592.7	8422.5
52.5°	10554.6	10590.8	10789.1	11097.3	12525.9	13918.2	11877.3	10416.6	10215.6	10184.7	9995.8
55°	8716.0	8760.2	9164.9	10002.5	12114.5	15404.4	15353.5	12630.4	12310.1	12019.3	11938.9
57.5°	6007.7	6081.4	6732.6	7976.3	10783.8	15853.3	19493.0	15786.3	15135.0	14119.3	14138.0
60°	3386.4	3472.2	4240.1	5369.8	8098.2	15365.5	22642.3	20566.5	19191.5	16578.3	16717.7
62.5°	2153.5	2246.0	2828.9	3730.8	4859.2	12739.0	23932.8	27212.0	25465.8	19609.6	19746.3
65°	1743.5	1783.7	2058.4	3079.5	3528.5	7674.7	22953.2	32686.3	32035.0	23457.0	22819.2
67.5°	1701.9	1715.3	1857.4	2585.0	3383.7	4313.8	18308.4	33710.1	34432.4	27049.8	24099.0
70°	1681.8	1728.7	2093.2	2467.1	3240.4	3638.4	11002.2	30904.0	32044.4	27989.2	22395.7
72.5°	816.1	813.4	1053.3	2231.3	3650.4	3773.7	5652.5	25004.9	26149.3	24249.0	18403.5
75°	658.0	601.7	574.9	817.5	3509.7	3897.0	3602.2	17205.5	18033.7	16258.0	11313.1
77.5°	624.5	557.5	510.6	511.9	1483.5	4132.9	3051.4	9522.7	9763.9	7343.7	3099.6
80°	517.3	455.6	422.1	475.7	718.3	3935.9	3299.3	4309.7	3954.6	1803.8	1031.9
82.5°	359.1	327.0	317.6	399.3	574.9	2804.8	3836.7	2315.7	1941.8	903.2	636.5
85°	229.2	195.7	217.1	290.8	447.6	1294.5	3951.9	1805.1	1435.2	573.6	359.1
87.5°	105.9	85.8	107.2	160.8	292.1	446.3	3760.3	2027.6	1478.1	302.9	226.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P191875

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5861.6	5861.6	5861.6	5861.6	5861.6	5861.6	5861.6	5861.6	5861.6	5861.6	5861.6
2.5°	5864.3	5838.8	5818.7	5781.2	5739.6	5699.4	5663.2	5617.7	5604.3	5592.2	5611.0
5°	5883.0	5857.6	5783.9	5668.6	5541.3	5422.0	5302.8	5200.9	5137.9	5103.1	5123.2
7.5°	5911.2	5875.0	5722.2	5510.5	5281.3	5072.3	4856.5	4683.6	4556.3	4496.0	4513.4
10°	5936.6	5866.9	5617.7	5300.1	4965.1	4654.2	4313.8	4032.3	3823.3	3713.4	3740.2
12.5°	5947.3	5836.1	5471.6	5037.4	4577.8	4122.1	3620.9	3200.1	2900.0	2790.1	2767.3
15°	5958.1	5801.3	5310.8	4738.6	4110.1	3465.5	2763.3	2259.4	2010.1	1955.2	1943.1
17.5°	5960.7	5741.0	5128.5	4414.3	3562.0	2684.2	1889.5	1569.3	1570.6	1659.0	1669.8
20°	5932.6	5651.2	4907.4	4010.9	2905.3	1856.0	1297.2	1242.3	1444.6	1665.7	1692.5
22.5°	5868.3	5531.9	4656.8	3540.5	2153.5	1222.2	1003.7	1064.0	1325.4	1596.1	1626.9
25°	5786.5	5387.2	4360.7	2995.1	1425.9	873.7	841.6	915.3	1092.2	1273.1	1290.5
27.5°	5675.3	5215.7	4028.3	2370.6	926.0	719.6	741.1	790.7	863.0	943.4	951.5
30°	5531.9	5010.6	3673.2	1728.7	699.5	647.3	678.1	704.9	735.7	781.3	785.3
32.5°	5367.1	4813.6	3308.7	1194.0	620.5	609.7	633.9	647.3	671.4	699.5	702.2
35°	5229.1	4626.0	2930.8	844.3	587.0	581.6	597.7	603.0	625.8	656.6	659.3
37.5°	5150.0	4473.2	2540.8	680.8	564.2	556.1	565.5	565.5	597.7	643.2	649.9
40°	5155.4	4388.8	2150.9	615.1	545.4	534.7	536.0	536.0	577.6	627.2	631.2
42.5°	5301.4	4410.3	1805.1	589.6	530.7	518.6	511.9	515.9	550.8	582.9	585.6
45°	5644.5	4561.7	1480.8	573.6	515.9	511.9	497.2	495.8	509.2	524.0	524.0
47.5°	6207.3	4860.5	1261.0	562.8	503.9	502.5	485.1	467.7	466.4	471.7	471.7
50°	7122.6	5375.1	1113.6	550.8	495.8	485.1	465.0	438.2	428.8	432.9	432.9
52.5°	8494.9	6293.1	1057.3	534.7	478.4	461.0	438.2	411.4	403.4	404.7	404.7
55°	10294.6	7702.9	1049.3	515.9	459.7	431.5	412.7	392.6	383.3	385.9	385.9
57.5°	12493.7	9652.7	1192.7	486.5	434.2	402.0	391.3	377.9	371.2	375.2	373.9
60°	15167.2	12204.3	1768.9	455.6	408.7	375.2	375.2	364.5	359.1	363.2	361.8
62.5°	18246.8	15135.0	2487.2	432.9	381.9	353.8	359.1	353.8	348.4	351.1	349.8
65°	20977.9	17044.7	2329.1	415.4	355.1	333.7	343.1	340.4	336.4	339.0	337.7
67.5°	21056.9	16337.1	1307.9	396.7	329.7	313.6	327.0	325.6	323.0	325.6	324.3
70°	18792.2	13795.0	737.1	361.8	302.9	289.5	308.2	306.9	304.2	309.6	308.2
72.5°	15056.0	10010.5	538.7	318.9	276.1	264.0	285.4	284.1	284.1	292.1	288.1
75°	8663.7	5151.3	430.2	273.4	247.9	238.5	257.3	258.6	261.3	272.0	264.0
77.5°	2469.8	1605.4	351.1	231.8	213.1	209.1	227.8	230.5	231.8	243.9	233.2
80°	918.0	739.7	289.5	194.3	174.2	175.6	193.0	197.0	198.3	210.4	197.0
82.5°	585.6	487.8	234.5	150.1	136.7	135.3	156.8	162.2	162.2	163.5	155.5
85°	341.7	292.1	176.9	108.5	96.5	92.5	116.6	126.0	121.9	119.3	113.9
87.5°	229.2	201.0	108.5	60.3	52.3	49.6	68.3	75.0	72.4	68.3	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

(END OF REPORT)