

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: P191894

Luminaire Tested: **GLEON-AF-06-LED-E1-SL2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191894
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-06-LED-E1-SL2-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1050mA 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: 34877 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

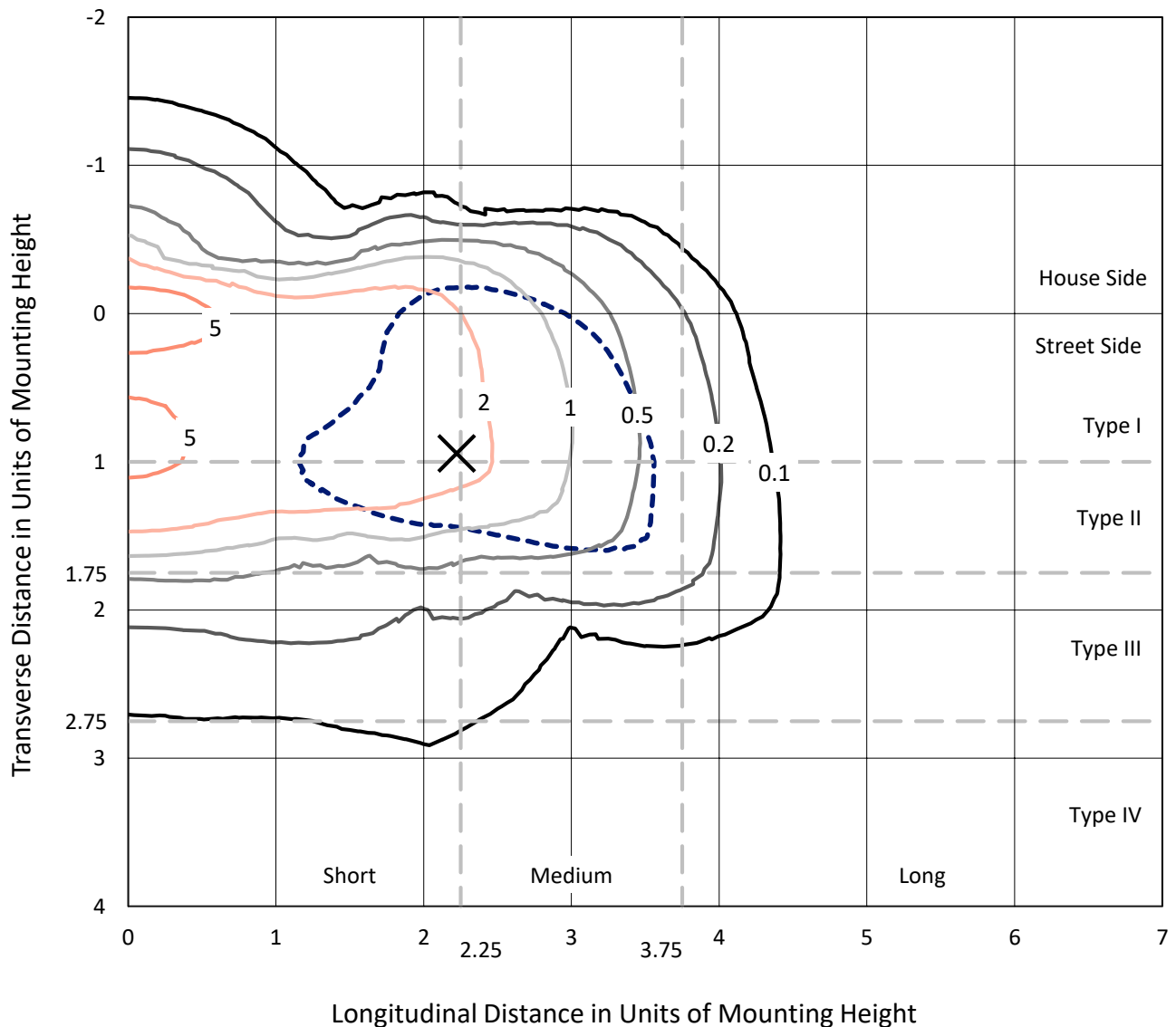
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191894
 CATALOG NUMBER: GLEON-AF-06-LED-E1-SL2-7050

Iso-Footcandle Lines of Horizontal Illumination

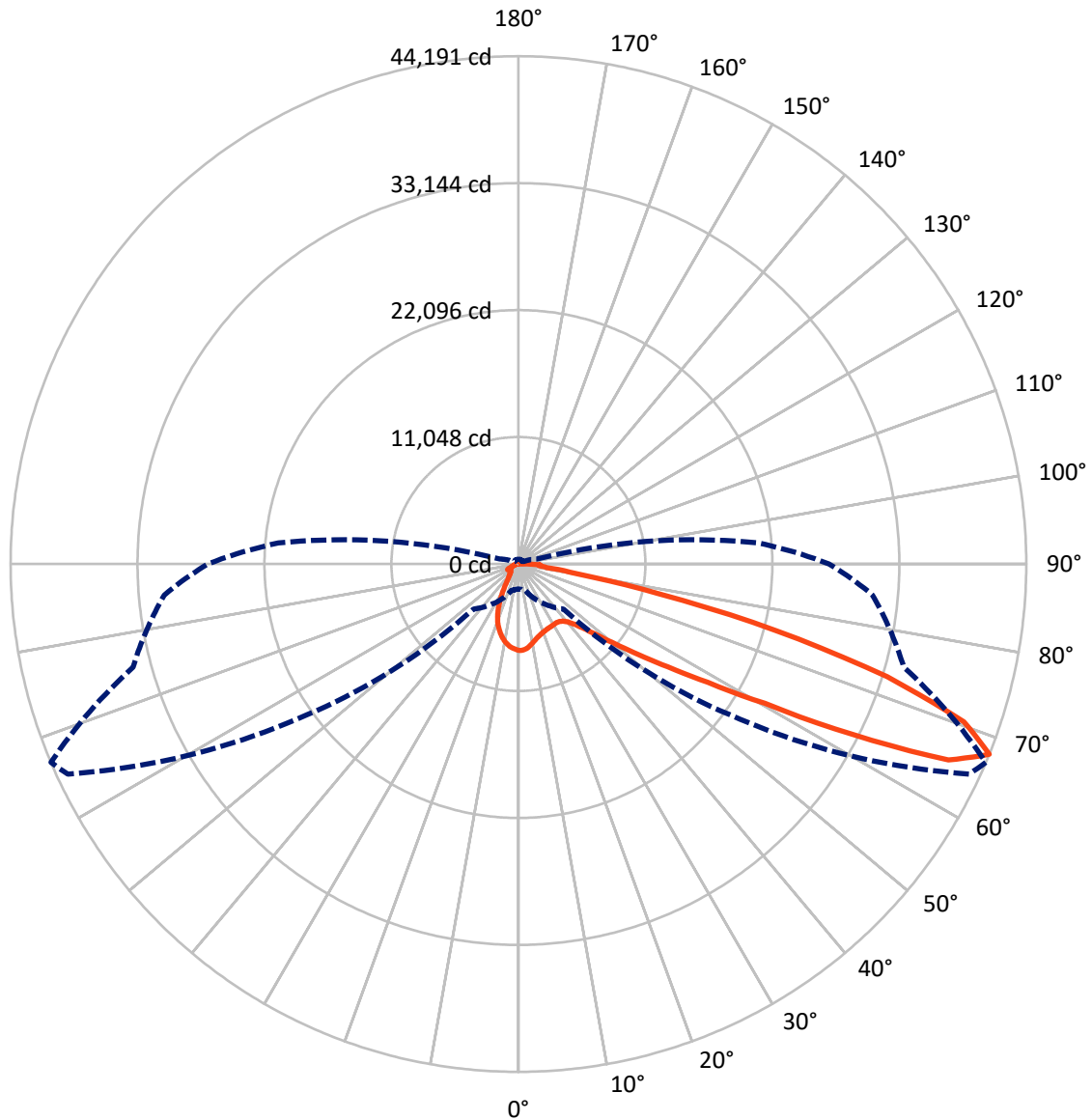
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P191894
CATALOG NUMBER: GLEON-AF-06-LED-E1-SL2-7050

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191894

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL2-7050

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5778.7	0.0	5778.7
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	29098.3	0.0	29098.3
	% Fixture	83.4	0.0	83.4
Total	Lumens	34877.0	0.0	34877.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	641.8	1.8
10°-20°	1485.1	4.3
20°-30°	2013.0	5.8
30°-40°	2861.7	8.2
40°-50°	4787.8	13.7
50°-60°	7574.2	21.7
60°-70°	9648.8	27.7
70°-80°	5054.0	14.5
80°-90°	810.6	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°	34877.0	100.0
0°-180°	34877.0	100.0

Coefficient of Utilization



REPORT NUMBER: P191894

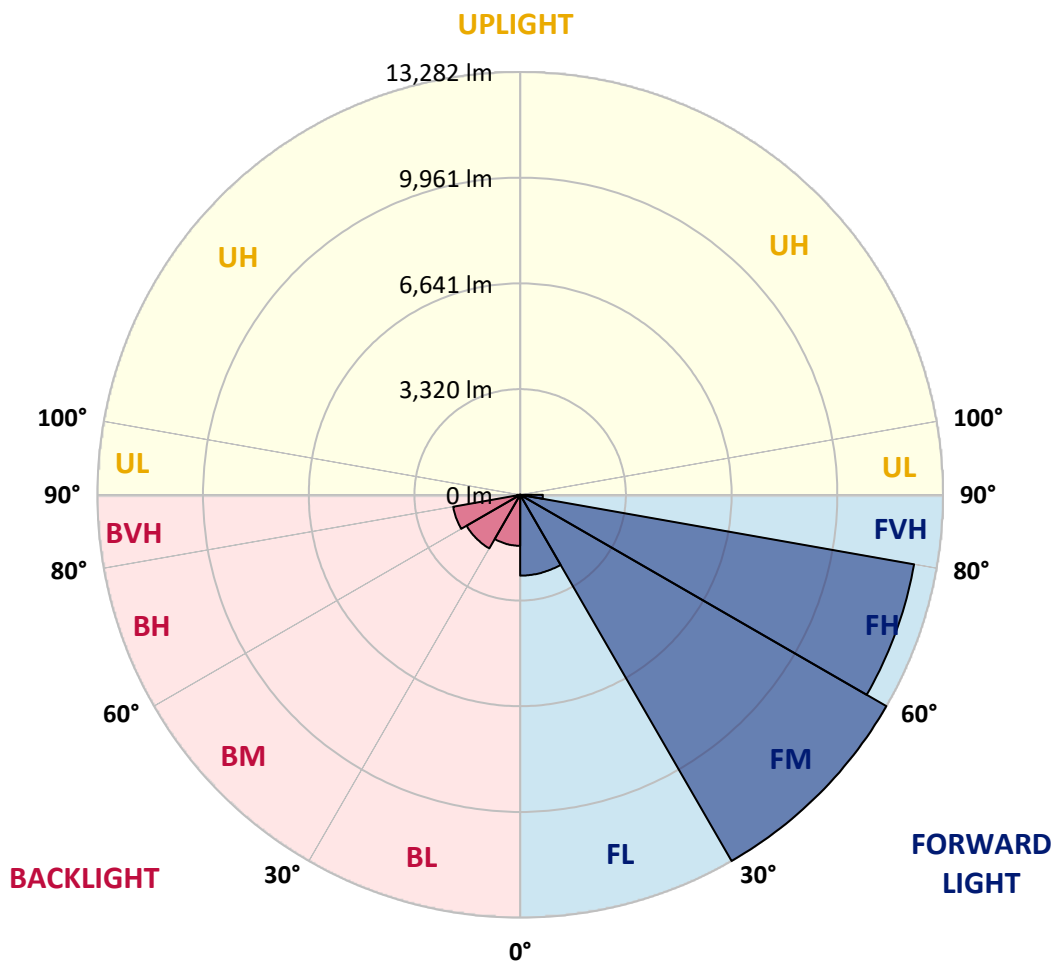
CATALOG NUMBER: GLEON-AF-06-LED-E1-SL2-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2538.2	7.3			
FM	(30°-60°)	13281.9	38.1			
FH	(60°-80°)	12565.5	36.0			G5
FVH	(80°-90°)	712.7	2.0			G4/750
BL	(0°-30°)	1601.7	4.6	B3/2500		
BM	(30°-60°)	1941.8	5.6	B2/2500		
BH	(60°-80°)	2137.4	6.1	B3/2500		G3/2500
BVH	(80°-90°)	97.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





REPORT NUMBER: P191894
 CATALOG NUMBER: GLEON-AF-06-LED-E1-SL2-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7522.9	7522.9	7522.9	7522.9	7522.9	7522.9	7522.9	7522.9	7522.9	7522.9	7522.9
2.5°	7213.3	7225.3	7263.2	7287.3	7395.6	7442.0	7474.7	7507.4	7512.6	7528.0	7512.6
5°	6456.5	6482.3	6552.9	6632.0	6841.8	7006.9	7180.6	7361.2	7393.9	7510.8	7543.5
7.5°	5870.1	5863.2	5921.6	6016.2	6231.2	6460.0	6764.4	7123.9	7194.4	7457.5	7584.8
10°	5441.8	5436.6	5498.6	5596.6	5801.3	6018.0	6361.9	6853.8	6953.6	7373.3	7624.4
12.5°	5125.3	5127.0	5189.0	5297.3	5505.4	5723.9	6073.0	6592.4	6719.7	7275.2	7665.6
15°	4915.5	4929.3	4979.1	5094.4	5297.3	5515.7	5858.0	6396.3	6539.1	7197.8	7712.1
17.5°	4845.0	4867.3	4884.5	4968.8	5142.5	5361.0	5696.3	6251.9	6403.2	7144.5	7753.4
20°	4910.3	4936.1	4903.5	4932.7	5042.8	5235.4	5569.1	6138.4	6293.1	7084.3	7758.5
22.5°	5190.7	5214.8	5118.5	5034.2	5027.3	5144.2	5464.2	6048.9	6208.9	7039.6	7760.2
25°	5684.3	5699.8	5538.1	5342.0	5151.1	5111.6	5390.2	5987.0	6157.3	7000.0	7727.6
27.5°	6289.7	6301.7	6116.0	5827.1	5443.5	5189.0	5364.4	5950.9	6128.0	6965.6	7672.5
30°	7025.8	7082.6	6833.2	6468.6	5909.6	5417.7	5416.0	5932.0	6095.4	6907.2	7564.2
32.5°	7779.1	7803.2	7631.2	7261.5	6537.4	5820.2	5560.5	5945.7	6086.8	6836.6	7426.6
35°	8542.8	8573.7	8462.0	8164.4	7395.6	6410.1	5842.5	6026.6	6140.1	6812.6	7330.3
37.5°	9531.7	9573.0	9418.2	9074.2	8439.6	7209.9	6312.1	6229.5	6303.5	6881.4	7301.0
40°	11095.1	11076.2	10623.9	10111.3	9581.6	8233.2	6982.8	6573.5	6616.5	7103.2	7390.5
42.5°	12914.8	12868.4	12089.2	11284.3	10837.1	9471.5	7870.3	7170.3	7161.7	7540.1	7705.2
45°	14366.4	14328.6	13626.8	12634.5	12276.7	10881.9	9017.5	8059.5	7995.9	8233.2	8286.5
47.5°	15152.4	15154.1	14749.9	13939.9	13931.3	12674.0	10491.4	9346.0	9235.9	9347.7	9291.0
50°	14877.2	14913.3	14870.3	14612.3	15441.3	15023.4	12416.0	11139.9	10918.0	11028.1	10809.6
52.5°	13546.0	13592.4	13847.0	14242.6	16076.0	17863.0	15243.6	13368.9	13110.9	13071.3	12828.8
55°	11186.3	11243.0	11762.5	12837.4	15548.0	19770.4	19705.0	16210.1	15799.1	15425.9	15322.7
57.5°	7710.4	7804.9	8640.8	10236.9	13840.1	20346.5	25017.8	20260.5	19424.7	18121.0	18145.0
60°	4346.2	4456.3	5441.8	6891.7	10393.4	19720.5	29059.6	26395.4	24630.8	21277.0	21455.9
62.5°	2763.9	2882.6	3630.7	4788.2	6236.4	16349.5	30715.9	34924.5	32683.4	25167.4	25342.9
65°	2237.6	2289.2	2641.8	3952.4	4528.5	9849.9	29458.6	41950.3	41114.4	30105.3	29286.6
67.5°	2184.3	2201.5	2383.8	3317.7	4342.8	5536.4	23497.4	43264.3	44191.4	34716.4	30929.1
70°	2158.5	2218.7	2686.5	3166.4	4158.7	4669.6	14120.5	39662.8	41126.5	35922.0	28743.1
72.5°	1047.4	1044.0	1351.8	2863.6	4685.0	4843.3	7254.6	32091.8	33560.6	31121.8	23619.5
75°	844.5	772.2	737.8	1049.1	4504.4	5001.5	4623.1	22081.9	23144.8	20865.9	14519.5
77.5°	801.5	715.5	655.3	657.0	1903.9	5304.2	3916.2	12221.7	12531.3	9425.1	3978.2
80°	663.9	584.8	541.8	610.6	921.9	5051.4	4234.4	5531.2	5075.5	2315.0	1324.3
82.5°	460.9	419.7	407.6	512.5	737.8	3599.8	4924.1	2972.0	2492.1	1159.2	817.0
85°	294.1	251.1	278.6	373.2	574.4	1661.4	5072.0	2316.7	1842.0	736.1	460.9
87.5°	135.9	110.1	137.6	206.4	374.9	572.7	4826.1	2602.2	1897.1	388.7	290.7
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: P191894
 CATALOG NUMBER: GLEON-AF-06-LED-E1-SL2-7050

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7522.9	7522.9	7522.9	7522.9	7522.9	7522.9	7522.9	7522.9	7522.9	7522.9	7522.9
2.5°	7526.3	7493.6	7467.8	7419.7	7366.4	7314.8	7268.3	7209.9	7192.7	7177.2	7201.3
5°	7550.4	7517.7	7423.1	7275.2	7111.8	6958.8	6805.7	6675.0	6594.1	6549.4	6575.2
7.5°	7586.5	7540.1	7344.0	7072.3	6778.2	6509.9	6233.0	6011.1	5847.7	5770.3	5792.7
10°	7619.2	7529.8	7209.9	6802.2	6372.3	5973.2	5536.4	5175.2	4906.9	4765.9	4800.3
12.5°	7633.0	7490.2	7022.4	6465.1	5875.2	5290.4	4647.2	4107.1	3721.9	3580.9	3551.6
15°	7646.7	7445.5	6816.0	6081.6	5275.0	4447.7	3546.5	2899.8	2579.9	2509.3	2493.9
17.5°	7650.2	7368.1	6582.1	5665.4	4571.5	3445.0	2425.1	2014.0	2015.7	2129.2	2143.0
20°	7614.0	7252.9	6298.3	5147.7	3728.8	2382.1	1664.9	1594.4	1854.1	2137.8	2172.2
22.5°	7531.5	7099.8	5976.7	4544.0	2763.9	1568.6	1288.2	1365.6	1701.0	2048.4	2088.0
25°	7426.6	6914.0	5596.6	3844.0	1830.0	1121.4	1080.1	1174.7	1401.7	1633.9	1656.3
27.5°	7283.8	6693.9	5170.0	3042.5	1188.5	923.6	951.1	1014.7	1107.6	1210.8	1221.1
30°	7099.8	6430.7	4714.3	2218.7	897.8	830.7	870.3	904.7	944.2	1002.7	1007.9
32.5°	6888.2	6177.9	4246.5	1532.4	796.3	782.6	813.5	830.7	861.7	897.8	901.2
35°	6711.1	5937.1	3761.4	1083.5	753.3	746.4	767.1	774.0	803.2	842.8	846.2
37.5°	6609.6	5741.1	3260.9	873.7	724.1	713.8	725.8	725.8	767.1	825.6	834.2
40°	6616.5	5632.7	2760.5	789.4	700.0	686.2	688.0	688.0	741.3	804.9	810.1
42.5°	6804.0	5660.2	2316.7	756.8	681.1	665.6	657.0	662.2	706.9	748.2	751.6
45°	7244.3	5854.6	1900.5	736.1	662.2	657.0	638.1	636.4	653.6	672.5	672.5
47.5°	7966.6	6238.1	1618.4	722.4	646.7	645.0	622.6	600.2	598.5	605.4	605.4
50°	9141.3	6898.6	1429.2	706.9	636.4	622.6	596.8	562.4	550.4	555.5	555.5
52.5°	10902.5	8076.7	1357.0	686.2	614.0	591.6	562.4	528.0	517.7	519.4	519.4
55°	13212.3	9886.0	1346.7	662.2	589.9	553.8	529.7	503.9	491.9	495.3	495.3
57.5°	16034.7	12388.5	1530.7	624.3	557.3	516.0	502.2	485.0	476.4	481.6	479.9
60°	19465.9	15663.2	2270.3	584.8	524.6	481.6	481.6	467.8	460.9	466.1	464.4
62.5°	23418.3	19424.7	3192.2	555.5	490.2	454.1	460.9	454.1	447.2	450.6	448.9
65°	26923.5	21875.5	2989.2	533.2	455.8	428.3	440.3	436.9	431.7	435.1	433.4
67.5°	27024.9	20967.4	1678.6	509.1	423.1	402.5	419.7	417.9	414.5	417.9	416.2
70°	24118.3	17704.7	946.0	464.4	388.7	371.5	395.6	393.9	390.4	397.3	395.6
72.5°	19323.2	12847.7	691.4	409.3	354.3	338.8	366.3	364.6	364.6	374.9	369.8
75°	11119.2	6611.3	552.1	350.9	318.2	306.1	330.2	331.9	335.4	349.1	338.8
77.5°	3169.8	2060.5	450.6	297.5	273.5	268.3	292.4	295.8	297.5	313.0	299.3
80°	1178.1	949.4	371.5	249.4	223.6	225.3	247.7	252.8	254.5	270.0	252.8
82.5°	751.6	626.0	301.0	192.6	175.4	173.7	201.2	208.1	208.1	209.8	199.5
85°	438.6	374.9	227.0	139.3	123.8	118.7	149.6	161.7	156.5	153.1	146.2
87.5°	294.1	258.0	139.3	77.4	67.1	63.6	87.7	96.3	92.9	87.7	82.6
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)