

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: P269626

Luminaire Tested: **GLEON-AF-09-LED-E1-SL2-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269626
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-09-LED-E1-SL2-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 29841 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

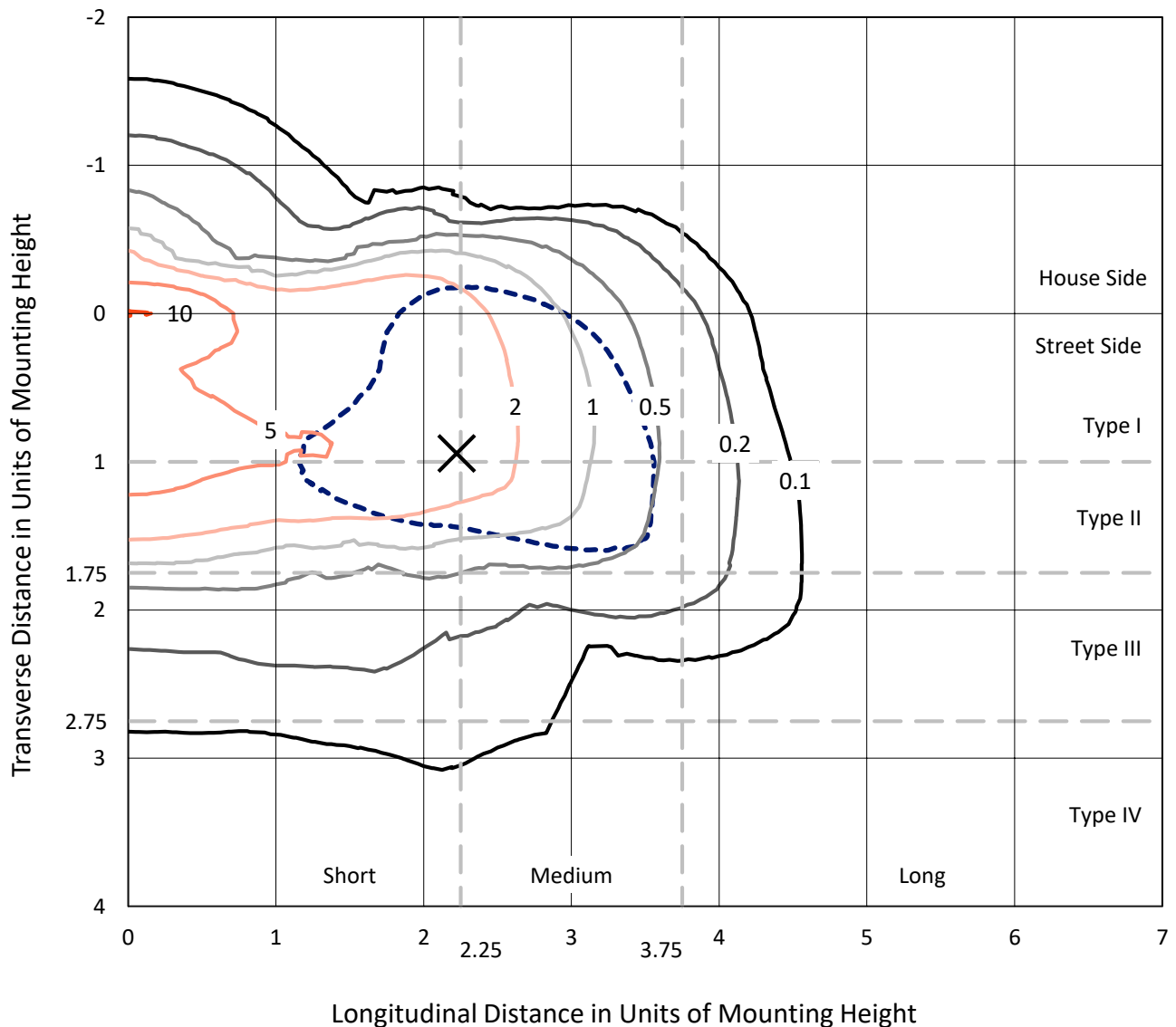
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P269626
 CATALOG NUMBER: GLEON-AF-09-LED-E1-SL2-7027-600

Iso-Footcandle Lines of Horizontal Illumination

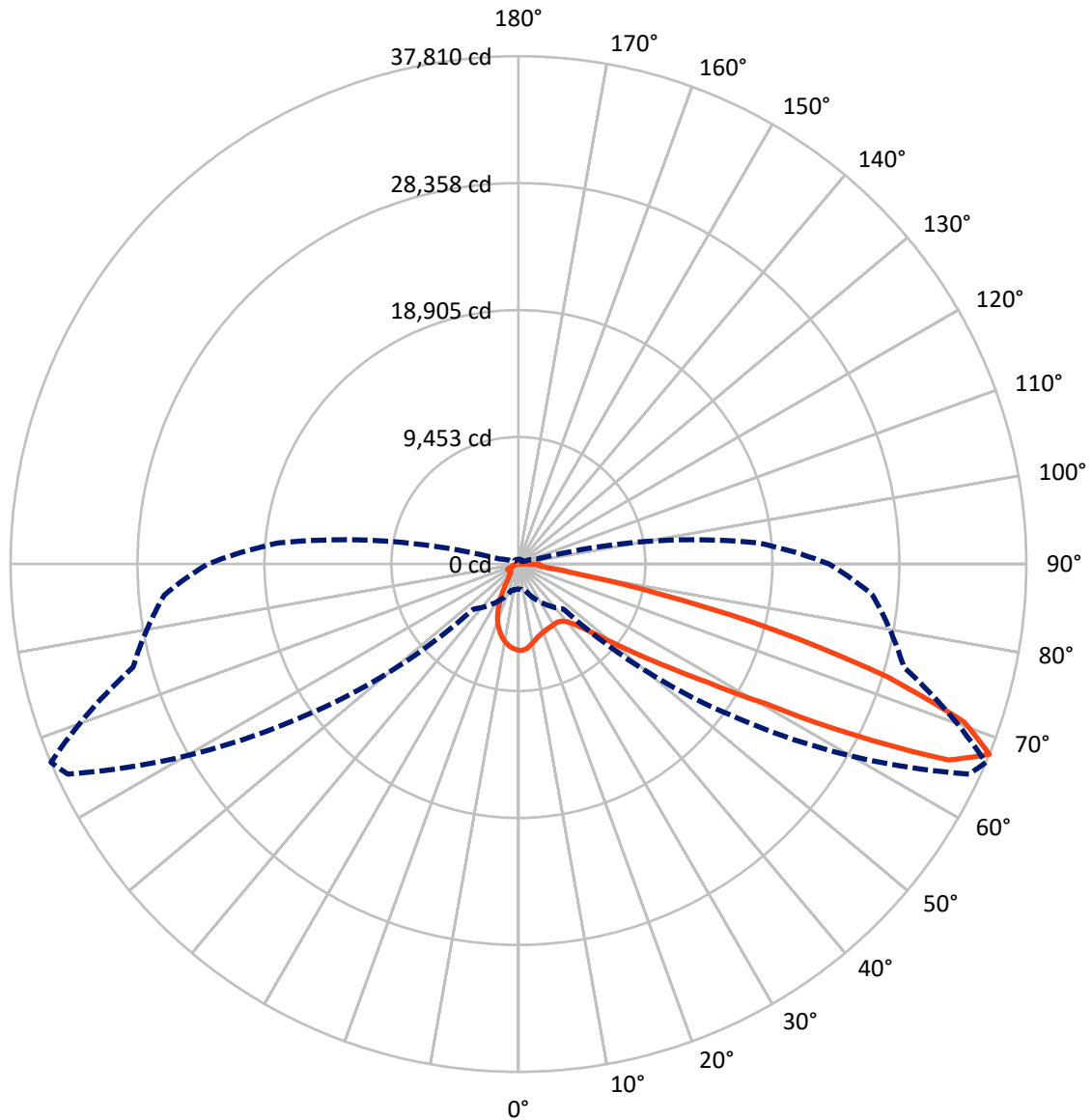
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P269626
CATALOG NUMBER: GLEON-AF-09-LED-E1-SL2-7027-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269626

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL2-7027-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4944.3	0.0	4944.3
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	24896.6	0.0	24896.6
	% Fixture	83.4	0.0	83.4
Total	Lumens	29841.0	0.0	29841.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.1	1.8
10°-20°	1270.6	4.3
20°-30°	1722.4	5.8
30°-40°	2448.5	8.2
40°-50°	4096.5	13.7
50°-60°	6480.6	21.7
60°-70°	8255.6	27.7
70°-80°	4324.3	14.5
80°-90°	693.5	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°	29841.0	100.0
0°-180°	29841.0	100.0



REPORT NUMBER: P269626

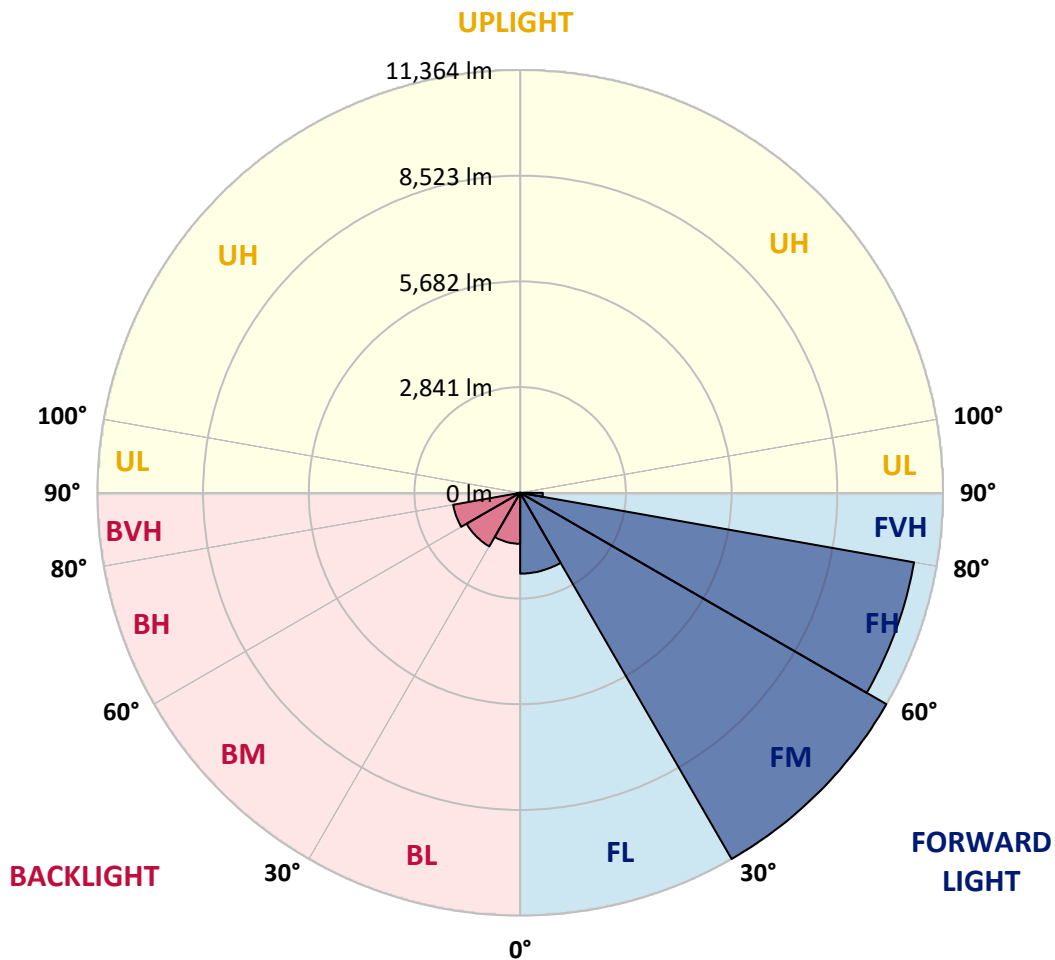
CATALOG NUMBER: GLEON-AF-09-LED-E1-SL2-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2171.7	7.3			
FM (30°-60°)	11364.1	38.1			
FH (60°-80°)	10751.1	36.0			G4/12000
FVH (80°-90°)	609.8	2.0			G4/750
BL (0°-30°)	1370.4	4.6	B3/2500		
BM (30°-60°)	1661.4	5.6	B2/2500		
BH (60°-80°)	1828.7	6.1	B3/2500		G3/2500
BVH (80°-90°)	83.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





REPORT NUMBER: P269626

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL2-7027-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6436.6	6436.6	6436.6	6436.6	6436.6	6436.6	6436.6	6436.6	6436.6	6436.6	6436.6
2.5°	6171.7	6182.0	6214.5	6235.0	6327.8	6367.5	6395.5	6423.4	6427.8	6441.0	6427.8
5°	5524.2	5546.3	5606.6	5674.4	5853.9	5995.2	6143.8	6298.2	6326.3	6426.4	6454.3
7.5°	5022.5	5016.6	5066.6	5147.6	5331.5	5527.2	5787.7	6095.2	6155.5	6380.8	6489.5
10°	4656.1	4651.7	4704.7	4788.4	4963.6	5149.1	5443.3	5864.1	5949.6	6308.5	6523.4
12.5°	4385.3	4386.8	4439.8	4532.4	4710.5	4897.4	5196.1	5640.5	5749.4	6224.7	6558.7
15°	4205.8	4217.5	4260.2	4358.8	4532.4	4719.3	5012.2	5472.7	5595.0	6158.5	6598.5
17.5°	4145.4	4164.5	4179.3	4251.4	4400.0	4586.8	4873.8	5349.1	5478.7	6112.8	6633.9
20°	4201.4	4223.4	4195.4	4220.4	4314.6	4479.5	4764.9	5252.0	5384.4	6061.4	6638.2
22.5°	4441.2	4461.8	4379.3	4307.3	4301.4	4401.4	4675.1	5175.4	5312.3	6023.1	6639.7
25°	4863.6	4876.8	4738.4	4570.7	4407.4	4373.5	4611.9	5122.6	5268.2	5989.3	6611.7
27.5°	5381.4	5391.7	5232.8	4985.7	4657.5	4439.8	4589.8	5091.7	5243.1	5959.9	6564.6
30°	6011.4	6059.8	5846.4	5534.5	5056.3	4635.4	4633.9	5075.5	5215.2	5909.8	6472.0
32.5°	6655.9	6676.6	6529.3	6212.9	5593.4	4979.8	4757.6	5087.2	5207.8	5849.5	6354.3
35°	7309.2	7335.7	7240.1	6985.5	6327.8	5484.5	4998.9	5156.5	5253.5	5828.8	6271.7
37.5°	8155.4	8190.7	8058.2	7764.1	7220.9	6168.8	5400.6	5330.1	5393.2	5887.8	6246.9
40°	9493.1	9476.8	9089.9	8651.3	8198.1	7044.4	5974.5	5624.3	5661.1	6077.6	6323.3
42.5°	11050.1	11010.3	10343.7	9655.0	9272.3	8103.9	6733.9	6135.0	6127.6	6451.4	6592.7
45°	12292.0	12259.6	11659.2	10810.2	10504.1	9310.7	7715.5	6895.7	6841.3	7044.4	7090.1
47.5°	12964.5	12966.0	12620.2	11927.1	11919.7	10844.0	8976.6	7996.5	7902.3	7998.0	7949.5
50°	12729.1	12760.0	12723.1	12502.4	13211.7	12854.0	10623.3	9531.3	9341.5	9435.6	9248.8
52.5°	11590.0	11629.7	11847.6	12186.0	13754.7	15283.7	13042.5	11438.5	11217.8	11183.9	10976.4
55°	9571.0	9619.6	10064.0	10983.8	13302.9	16915.7	16859.7	13869.6	13517.8	13198.4	13110.1
57.5°	6597.1	6678.0	7393.1	8758.7	11841.6	17408.7	21405.4	17335.0	16619.8	15504.3	15525.0
60°	3718.7	3812.9	4656.1	5896.6	8892.6	16873.0	24863.6	22584.1	21074.2	18204.7	18357.8
62.5°	2364.8	2466.3	3106.5	4096.8	5335.9	13988.6	26280.6	29881.6	27964.1	21533.5	21683.5
65°	1914.5	1958.7	2260.3	3381.7	3874.6	8427.7	25205.0	35892.9	35177.7	25758.3	25057.9
67.5°	1868.8	1883.6	2039.6	2838.6	3715.7	4736.9	20104.4	37017.1	37810.4	29703.5	26463.1
70°	1846.8	1898.3	2298.7	2709.2	3558.2	3995.3	12081.6	33935.7	35188.0	30735.1	24592.8
72.5°	896.1	893.3	1156.7	2450.1	4008.5	4143.9	6207.1	27458.0	28714.6	26628.0	20209.0
75°	722.5	660.8	631.2	897.6	3854.0	4279.3	3955.5	18893.4	19802.9	17853.0	12422.9
77.5°	685.8	612.1	560.6	562.1	1629.0	4538.2	3350.8	10456.9	10721.8	8064.2	3403.7
80°	568.0	500.4	463.5	522.5	788.7	4321.9	3623.0	4732.5	4342.5	1980.8	1133.1
82.5°	394.4	359.1	348.7	438.6	631.2	3080.0	4213.1	2542.8	2132.2	991.8	699.1
85°	251.6	214.9	238.4	319.3	491.6	1421.6	4339.6	1982.2	1576.0	629.8	394.4
87.5°	116.2	94.2	117.7	176.5	320.9	490.0	4129.1	2226.4	1623.1	332.6	248.7
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: P269626

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL2-7027-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6436.6	6436.6	6436.6	6436.6	6436.6	6436.6	6436.6	6436.6	6436.6	6436.6	6436.6
2.5°	6439.6	6411.7	6389.6	6348.3	6302.7	6258.5	6218.8	6168.8	6154.1	6140.9	6161.5
5°	6460.3	6432.3	6351.2	6224.7	6084.8	5954.0	5823.0	5711.2	5642.0	5603.6	5625.7
7.5°	6491.1	6451.4	6283.6	6051.1	5799.5	5569.9	5333.0	5143.2	5003.3	4937.2	4956.2
10°	6519.0	6442.6	6168.8	5819.9	5452.2	5110.7	4736.9	4427.9	4198.4	4077.6	4107.1
12.5°	6530.8	6408.7	6008.5	5531.7	5026.8	4526.5	3976.2	3514.1	3184.4	3063.8	3038.7
15°	6542.5	6370.4	5831.7	5203.4	4513.3	3805.5	3034.4	2481.1	2207.3	2146.9	2133.7
17.5°	6545.5	6304.1	5631.7	4847.3	3911.4	2947.6	2074.9	1723.2	1724.7	1821.9	1833.6
20°	6514.6	6205.6	5388.8	4404.4	3190.3	2038.2	1424.5	1364.2	1586.3	1829.2	1858.7
22.5°	6444.0	6074.6	5113.7	3887.9	2364.8	1342.1	1102.2	1168.4	1455.3	1752.7	1786.5
25°	6354.3	5915.7	4788.4	3289.0	1565.7	959.5	924.1	1005.1	1199.3	1398.0	1417.2
27.5°	6232.1	5727.4	4423.6	2603.2	1016.8	790.1	813.8	868.2	947.7	1035.9	1044.8
30°	6074.6	5502.2	4033.6	1898.3	768.2	710.7	744.7	774.0	807.8	857.9	862.4
32.5°	5893.6	5285.8	3633.3	1311.2	681.4	669.5	696.0	710.7	737.2	768.2	771.0
35°	5742.1	5079.8	3218.3	927.1	644.5	638.6	656.3	662.2	687.3	721.1	724.0
37.5°	5655.2	4912.1	2790.0	747.6	619.6	610.7	621.0	621.0	656.3	706.3	713.8
40°	5661.1	4819.3	2361.9	675.4	598.9	587.1	588.6	588.6	634.3	688.7	693.1
42.5°	5821.5	4842.9	1982.2	647.5	582.7	569.4	562.1	566.6	604.7	640.1	643.0
45°	6198.2	5009.2	1626.1	629.8	566.6	562.1	546.0	544.6	559.1	575.4	575.4
47.5°	6816.2	5337.4	1384.7	618.0	553.3	551.7	532.8	513.7	512.2	518.1	518.1
50°	7821.4	5902.5	1222.9	604.7	544.6	532.8	510.6	481.2	470.9	475.4	475.4
52.5°	9328.3	6910.5	1161.1	587.1	525.4	506.3	481.2	451.8	443.0	444.4	444.4
55°	11304.6	8458.5	1152.3	566.6	504.8	473.9	453.3	431.1	420.9	423.8	423.8
57.5°	13719.5	10599.7	1309.6	534.2	476.8	441.4	429.7	414.9	407.7	412.1	410.5
60°	16655.1	13401.5	1942.4	500.4	448.9	412.1	412.1	400.3	394.4	398.8	397.3
62.5°	20036.9	16619.8	2731.2	475.4	419.4	388.4	394.4	388.4	382.6	385.6	384.0
65°	23035.9	18716.8	2557.6	456.2	390.0	366.4	376.7	373.8	369.4	372.3	370.8
67.5°	23122.7	17939.8	1436.2	435.6	361.9	344.3	359.1	357.5	354.7	357.5	356.1
70°	20635.8	15148.3	809.4	397.3	332.6	317.9	338.4	337.0	334.0	339.9	338.4
72.5°	16533.0	10992.6	591.5	350.2	303.2	290.0	313.5	312.0	312.0	320.9	316.5
75°	9513.7	5656.6	472.4	300.3	272.2	261.9	282.5	284.0	287.0	298.7	290.0
77.5°	2712.2	1763.0	385.6	254.6	234.0	229.5	250.2	253.1	254.6	267.9	256.0
80°	1008.0	812.2	317.9	213.3	191.2	192.7	211.9	216.3	217.7	231.0	216.3
82.5°	643.0	535.7	257.5	164.7	150.0	148.6	172.1	178.0	178.0	179.5	170.7
85°	375.2	320.9	194.3	119.1	106.0	101.6	128.0	138.2	133.8	131.0	125.0
87.5°	251.6	220.8	119.1	66.3	57.4	54.4	75.1	82.5	79.5	75.1	70.6
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)