

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: P191963

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191963
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-05-LED-E1-SL3-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 800mA 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: 24039 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

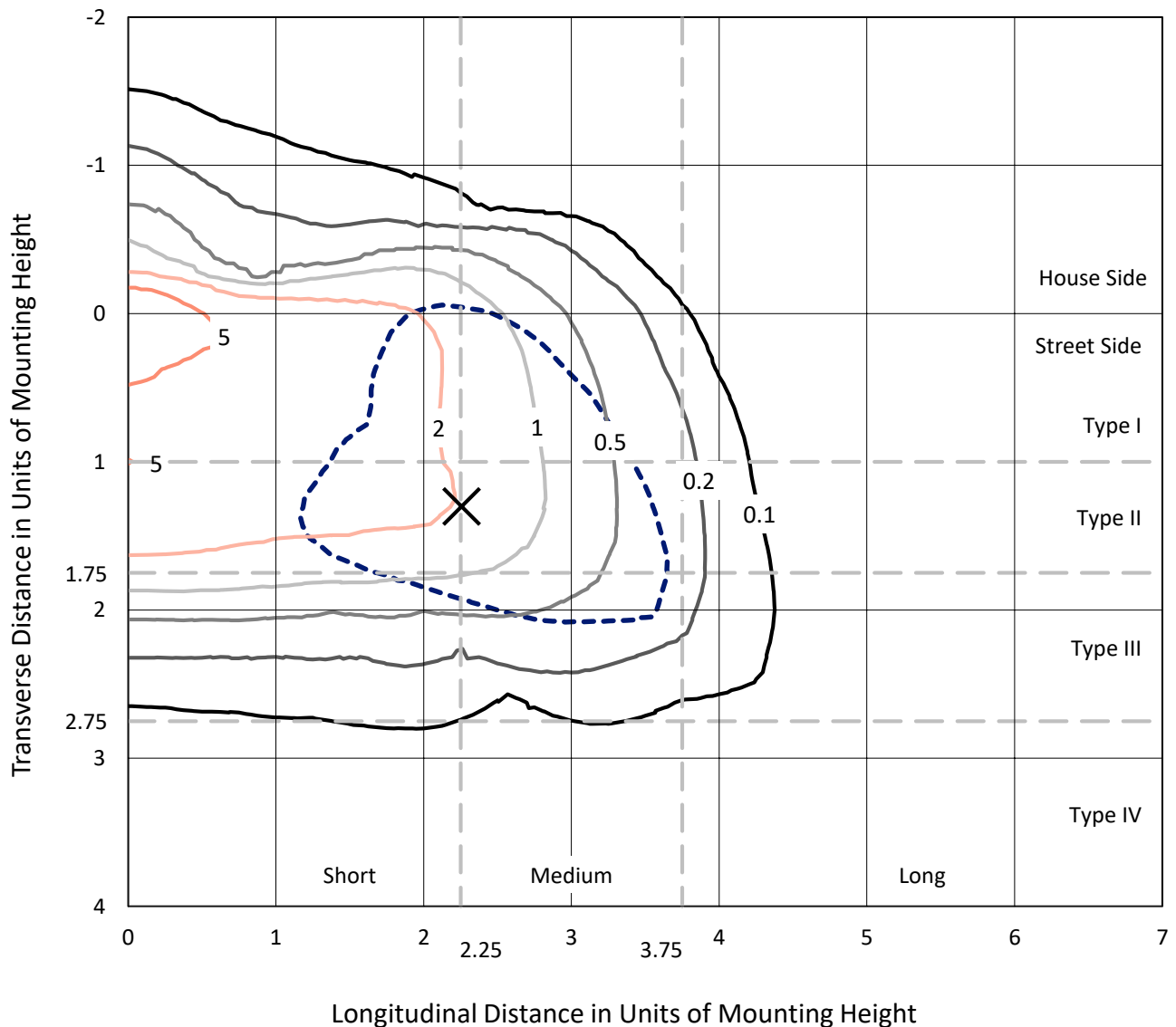
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191963
 CATALOG NUMBER: GLEON-AF-05-LED-E1-SL3-7050-800

Iso-Footcandle Lines of Horizontal Illumination

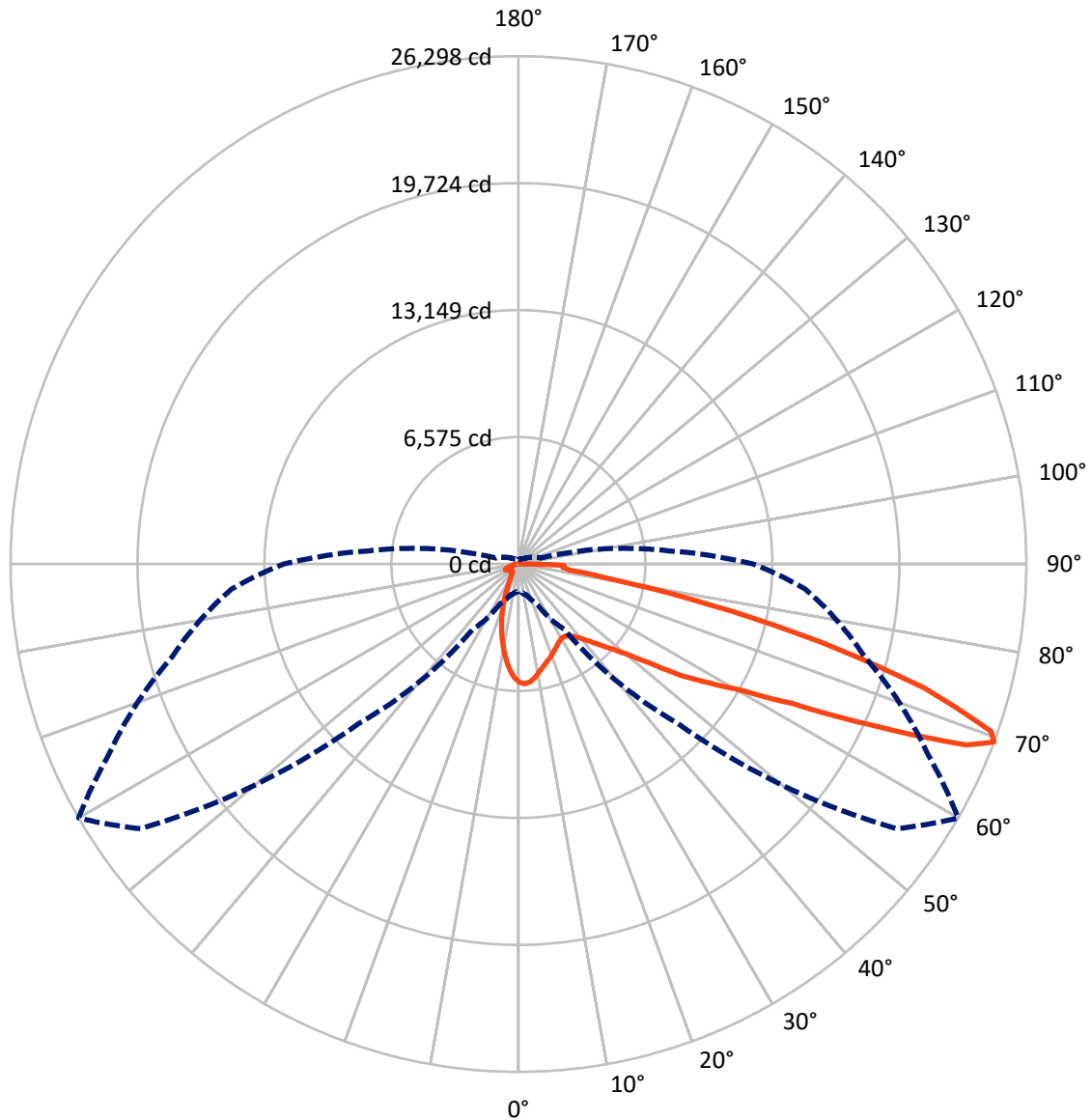
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P191963
CATALOG NUMBER: GLEON-AF-05-LED-E1-SL3-7050-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191963

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL3-7050-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3420.0	0.0	3420.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	20619.0	0.0	20619.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	24039.0	0.0	24039.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.9	2.2
10°-20°	1103.5	4.6
20°-30°	1406.0	5.8
30°-40°	1933.0	8.0
40°-50°	3136.4	13.0
50°-60°	5030.0	20.9
60°-70°	6694.5	27.8
70°-80°	3614.5	15.0
80°-90°	603.1	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°	24039.0	100.0
0°-180°	24039.0	100.0

Coefficient of Utilization



REPORT NUMBER: P191963

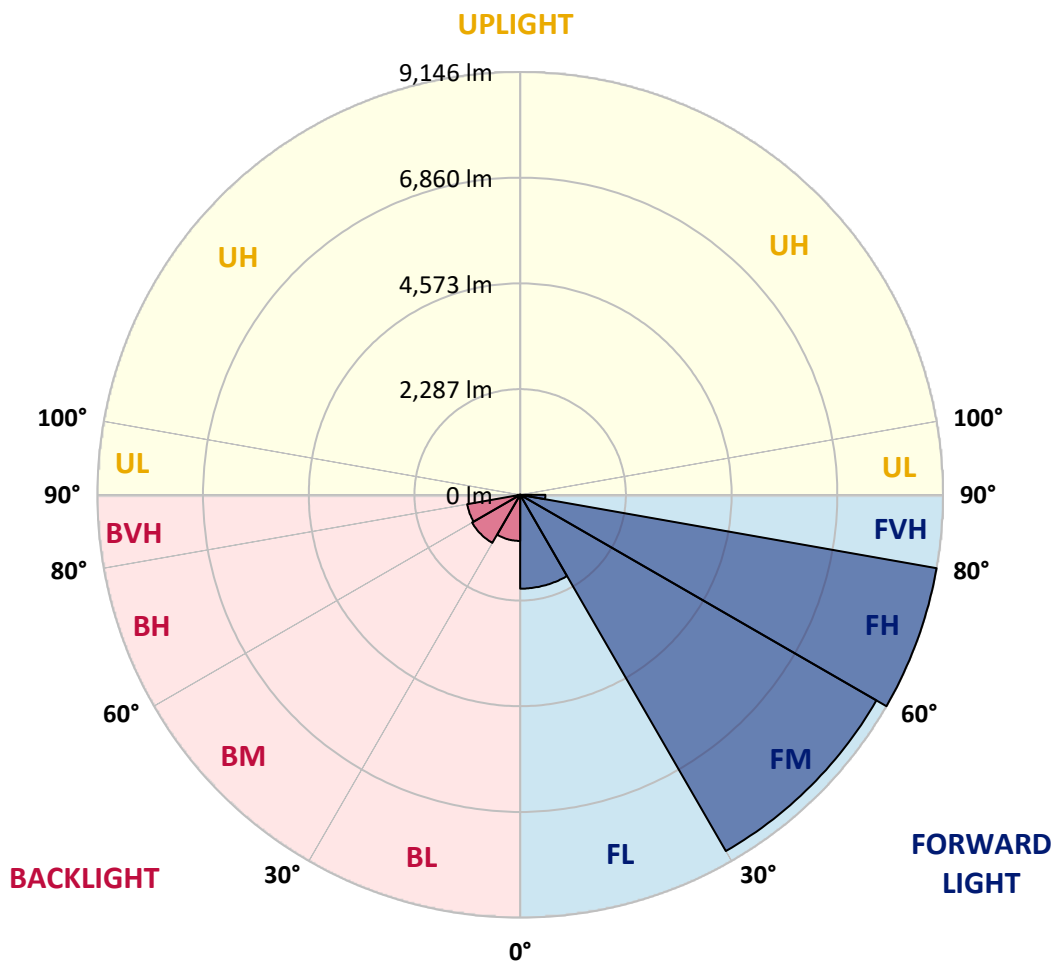
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2029.8	8.4			
FM (30°-60°)	8897.8	37.0			
FH (60°-80°)	9146.4	38.0			G4/12000
FVH (80°-90°)	545.0	2.3			G4/750
BL (0°-30°)	997.7	4.2	B2/1000		
BM (30°-60°)	1201.5	5.0	B2/2500		
BH (60°-80°)	1162.7	4.8	B3/2500		G3/2500
BVH (80°-90°)	58.1	0.2			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 III Medium





REPORT NUMBER: P191963

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL3-7050-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	6125.5	6125.5	6125.5	6125.5	6125.5	6125.5	6125.5	6125.5	6125.5	6125.5	6125.5
2.5°	6250.9	6264.9	6259.0	6255.6	6266.0	6249.8	6216.1	6205.6	6189.4	6151.0	6086.0
5°	6016.3	6058.2	6055.8	6087.2	6139.4	6153.4	6138.3	6140.6	6110.4	6062.8	5954.8
7.5°	5611.1	5628.5	5637.8	5706.3	5801.5	5878.2	5943.2	5964.1	5950.2	5909.5	5770.2
10°	5193.0	5207.0	5229.0	5309.2	5429.9	5535.6	5658.7	5729.5	5759.7	5752.7	5597.1
12.5°	4834.2	4848.1	4877.2	4967.8	5111.7	5241.8	5420.6	5508.9	5580.9	5623.8	5456.6
15°	4512.6	4542.7	4570.6	4675.1	4836.5	5007.2	5209.3	5320.8	5432.2	5528.6	5332.4
17.5°	4261.7	4291.9	4308.2	4403.4	4575.3	4784.3	5021.2	5152.4	5291.7	5449.7	5209.3
20°	4116.6	4130.5	4123.5	4177.0	4331.4	4553.2	4834.2	4986.3	5154.7	5375.3	5086.2
22.5°	4075.9	4077.1	4051.5	4045.7	4145.6	4332.6	4634.5	4819.1	5025.8	5326.6	4980.5
25°	4174.6	4171.1	4101.5	4044.6	4055.0	4164.2	4441.7	4656.5	4917.8	5316.1	4899.2
27.5°	4394.1	4404.6	4301.2	4194.4	4088.7	4085.2	4295.4	4521.8	4829.6	5363.7	4864.4
30°	4701.8	4719.2	4608.9	4473.1	4274.5	4110.8	4238.5	4441.7	4775.0	5462.4	4858.6
32.5°	5038.6	5057.2	4973.6	4830.7	4570.6	4268.7	4278.0	4448.7	4772.7	5600.6	4898.1
35°	5397.4	5418.3	5375.3	5254.6	4965.4	4560.2	4428.9	4561.3	4848.1	5812.0	5003.8
37.5°	5798.0	5830.5	5842.2	5727.2	5418.3	4944.5	4676.3	4775.0	5018.8	6105.8	5197.7
40°	6375.2	6420.5	6417.0	6252.1	5937.4	5463.6	5058.3	5083.9	5284.8	6498.3	5507.7
42.5°	7480.7	7490.0	7200.8	6842.0	6508.7	6009.4	5508.9	5488.0	5651.7	6995.3	5964.1
45°	8886.9	8848.6	8205.3	7512.0	7105.6	6636.4	6095.3	5993.1	6117.4	7601.4	6535.4
47.5°	10054.0	9965.7	9152.8	8196.0	7737.3	7318.1	6783.9	6605.1	6673.6	8288.9	7274.0
50°	10459.2	10393.0	9719.5	8765.0	8335.3	8149.5	7631.6	7378.5	7397.1	9108.7	8139.1
52.5°	10372.1	10362.8	9913.4	9140.1	8895.0	9022.8	8832.3	8489.8	8308.6	10019.1	9072.7
55°	10166.6	10186.3	10023.8	9576.7	9534.9	9865.8	10401.2	10148.0	9584.8	10937.7	10037.7
57.5°	9452.4	9503.5	9861.2	10125.9	10564.9	11057.3	11664.6	11592.6	10958.6	11930.5	11185.0
60°	7615.4	7733.8	8693.0	10019.1	11625.1	13164.9	13436.6	13269.4	12375.3	13162.6	12700.4
62.5°	5335.9	5459.0	6599.3	8674.4	11450.9	15545.4	16604.5	15883.3	14409.7	14977.6	14661.7
65°	2856.6	2915.9	3786.8	6018.7	9667.3	16036.6	21234.3	20136.9	17631.0	17215.3	16339.7
67.5°	1575.8	1608.3	1941.6	3038.9	6191.7	14121.8	24183.8	25013.0	21657.0	18705.1	16034.3
69°	1424.8	1455.0	1673.3	2301.6	4143.3	11676.2	23895.8	26298.4	23422.1	18557.7	14905.6
70°	1393.5	1421.3	1617.6	2121.6	3353.6	9624.3	22930.9	25969.8	23842.4	18029.3	13920.9
72.5°	1254.1	1284.3	1474.8	1905.6	2865.9	4798.2	18164.0	21957.7	21646.5	15632.5	10559.1
75°	1169.4	1197.2	1520.1	1866.1	2744.0	3036.6	11974.6	16182.9	15912.4	10935.3	5693.5
77.5°	500.5	498.2	704.9	1579.3	2784.6	2940.2	6434.4	10109.7	9223.7	4674.0	1635.0
80°	334.4	328.6	334.4	464.5	2553.6	2956.5	3371.1	5131.5	3876.2	1191.4	805.9
82.5°	288.0	283.3	293.8	283.3	897.6	3374.5	2865.9	2728.9	1842.9	677.0	399.5
85°	193.9	185.8	253.1	254.3	423.8	2998.3	3228.2	2305.0	1491.0	401.8	197.4
87.5°	92.9	90.6	147.5	180.0	248.5	1218.1	3621.9	2361.9	1503.8	205.5	94.1
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: P191963

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6125.5	6125.5	6125.5	6125.5	6125.5	6125.5	6125.5	6125.5	6125.5	6125.5	6125.5
2.5°	6066.3	6018.7	5972.2	5916.5	5858.4	5793.4	5760.9	5728.4	5720.2	5710.9	5678.4
5°	5899.1	5831.7	5715.6	5587.9	5453.1	5321.9	5222.1	5159.4	5111.7	5087.4	5044.4
7.5°	5683.1	5584.4	5381.2	5160.5	4934.1	4727.4	4548.5	4435.9	4329.1	4279.1	4222.2
10°	5477.5	5330.1	5014.2	4689.1	4363.9	4051.5	3757.7	3549.9	3365.3	3261.9	3188.7
12.5°	5301.0	5099.0	4661.2	4221.1	3775.2	3330.4	2890.3	2544.3	2255.1	2103.0	2025.2
15°	5129.2	4885.3	4325.6	3767.0	3194.6	2589.5	2011.3	1618.8	1379.5	1284.3	1251.8
17.5°	4973.6	4661.2	3988.8	3309.5	2595.4	1863.8	1351.7	1135.7	1043.9	1012.6	1002.1
20°	4805.2	4434.7	3639.3	2831.1	1970.6	1302.9	1055.6	960.3	923.2	913.9	909.2
22.5°	4642.6	4211.8	3304.9	2319.0	1415.5	1005.6	906.9	867.4	861.6	869.8	869.8
25°	4504.4	4012.1	2943.7	1783.7	1039.3	846.5	811.7	802.4	824.5	854.7	860.5
27.5°	4401.1	3848.3	2559.4	1316.8	828.0	736.2	735.1	750.2	804.7	862.8	874.4
30°	4330.2	3692.7	2148.3	949.9	694.4	648.0	666.5	699.1	779.2	861.6	883.7
32.5°	4294.2	3577.8	1719.8	735.1	594.6	569.0	600.4	639.8	718.8	795.4	824.5
35°	4322.1	3493.0	1315.7	613.1	524.9	505.1	537.7	576.0	622.4	654.9	677.0
37.5°	4426.6	3459.3	992.9	549.3	477.3	458.7	484.2	506.3	524.9	534.2	544.6
40°	4651.9	3495.3	795.4	516.7	450.6	427.3	437.8	445.9	457.5	466.8	471.5
42.5°	4984.0	3603.3	713.0	504.0	436.6	402.9	400.6	404.1	419.2	436.6	440.1
45°	5448.5	3793.7	707.2	512.1	429.7	383.2	372.8	377.4	400.6	427.3	432.0
47.5°	6041.9	4084.1	753.6	536.5	435.5	372.8	355.3	361.1	390.2	426.2	432.0
50°	6760.7	4489.3	831.4	572.5	461.0	375.1	349.5	353.0	383.2	422.7	428.5
52.5°	7609.6	5064.1	916.2	607.3	487.7	390.2	354.2	346.0	373.9	408.8	415.7
55°	8553.6	5801.5	1003.3	638.7	501.7	408.8	363.5	336.8	356.5	385.5	391.3
57.5°	9712.5	6832.7	1154.3	668.9	510.9	421.5	372.8	327.5	334.4	355.3	360.0
60°	11281.4	8291.2	1420.2	718.8	531.8	426.2	371.6	319.3	312.4	324.0	326.3
62.5°	13161.4	9875.1	1642.0	781.5	566.7	429.7	364.6	313.5	293.8	293.8	296.1
65°	14277.4	10299.0	1518.9	833.8	595.7	426.2	356.5	307.7	279.9	267.1	268.2
67.5°	13331.0	9057.6	1301.7	844.2	594.6	409.9	343.7	297.3	265.9	246.2	245.0
69°	12145.3	7815.1	1204.2	816.3	566.7	389.0	327.5	285.7	255.5	234.6	233.4
70°	11189.6	7056.8	1140.3	786.2	536.5	373.9	314.7	275.2	247.3	227.6	225.3
72.5°	8135.6	4624.0	974.3	675.8	442.4	313.5	271.7	241.5	220.6	209.0	206.7
75°	4065.5	2205.2	790.8	548.1	339.1	250.8	223.0	202.1	191.6	189.3	188.1
77.5°	1335.4	1010.3	565.5	408.8	252.0	196.2	180.0	164.9	162.6	169.5	167.2
80°	733.9	587.6	358.8	270.6	171.9	144.0	141.7	133.5	137.0	148.6	146.3
82.5°	373.9	305.4	221.8	162.6	116.1	103.3	112.6	108.0	112.6	123.1	121.9
85°	184.6	167.2	140.5	98.7	76.6	66.2	80.1	83.6	85.9	94.1	94.1
87.5°	106.8	98.7	74.3	46.4	38.3	34.8	46.4	45.3	53.4	58.1	56.9
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)