

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: P192823

Luminaire Tested: **GLEON-AF-05-LED-E1-SL2-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192823
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-05-LED-E1-SL2-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA 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: 22774 lumens
Efficiency: N/A
Efficacy: 108.4 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 - 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



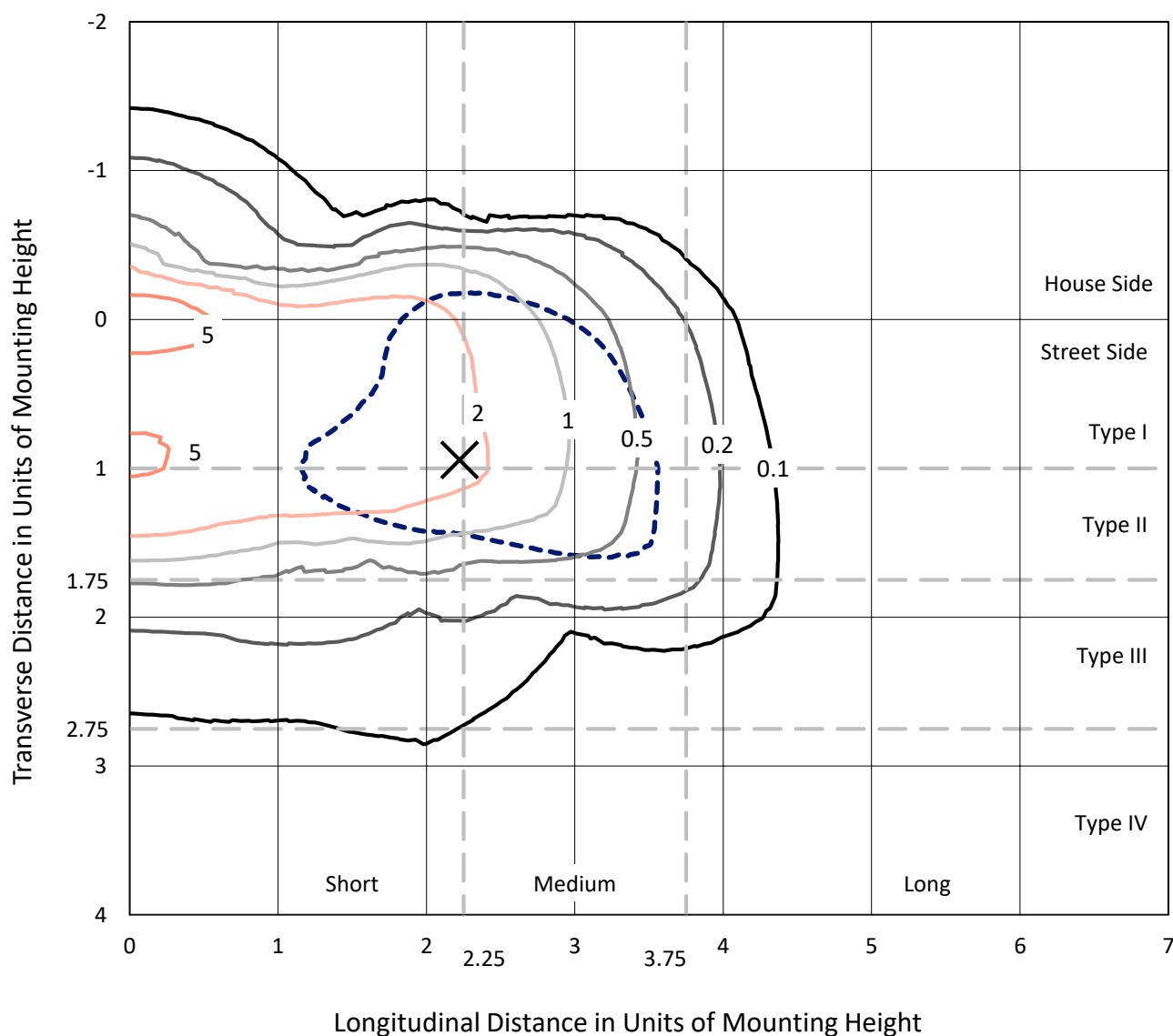
REPORT NUMBER: P192823

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL2-7030-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

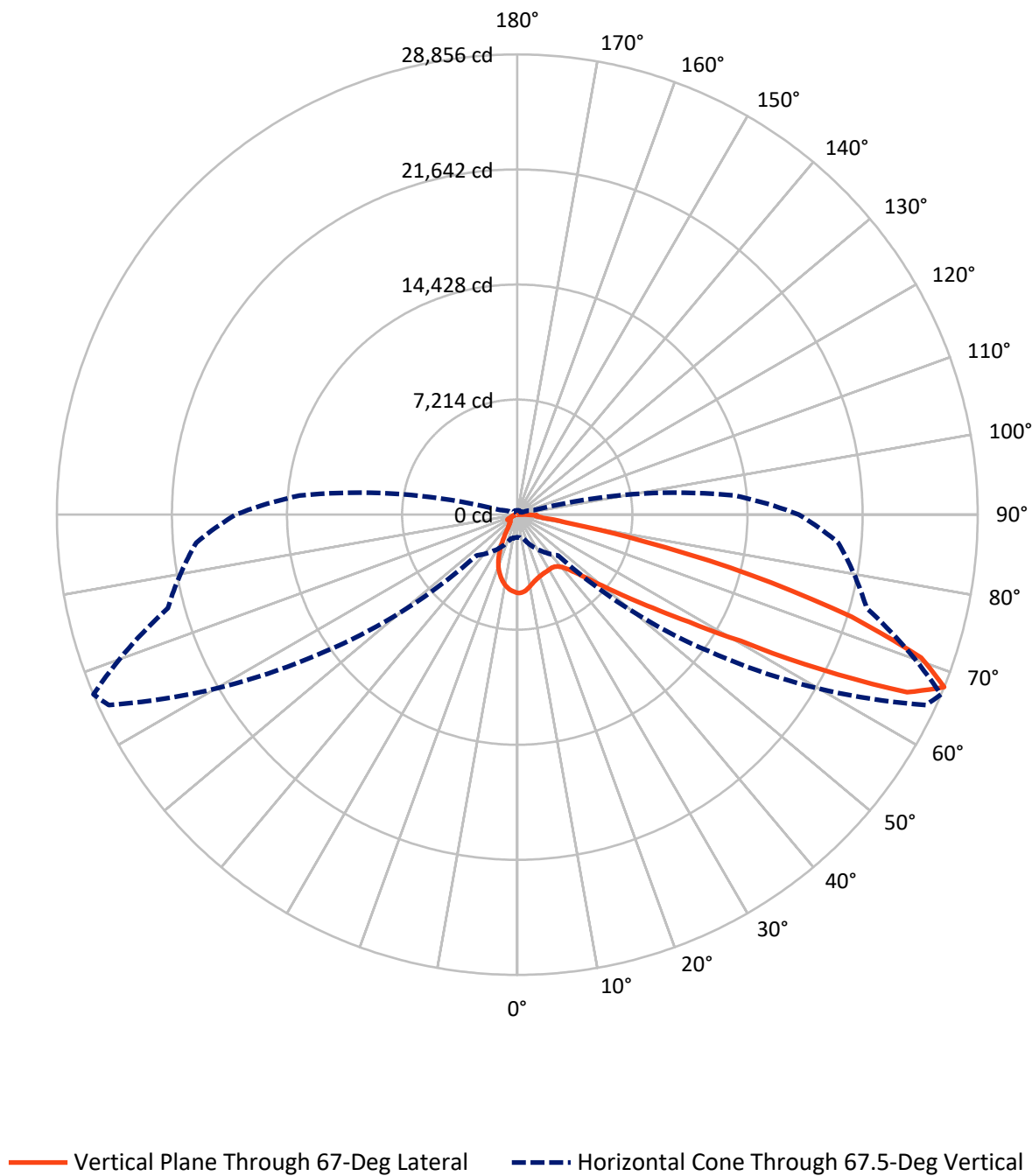


Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P192823

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL2-7030-800

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3773.4	0.0	3773.4
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	19000.6	0.0	19000.6
	% Fixture	83.4	0.0	83.4
Total	Lumens	22774.0	0.0	22774.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.1	1.8
10°-20°	969.7	4.3
20°-30°	1314.5	5.8
30°-40°	1868.7	8.2
40°-50°	3126.3	13.7
50°-60°	4945.8	21.7
60°-70°	6300.5	27.7
70°-80°	3300.2	14.5
80°-90°	529.3	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°	22774.0	100.0
0°-180°	22774.0	100.0

Coefficient of Utilization



REPORT NUMBER: P192823

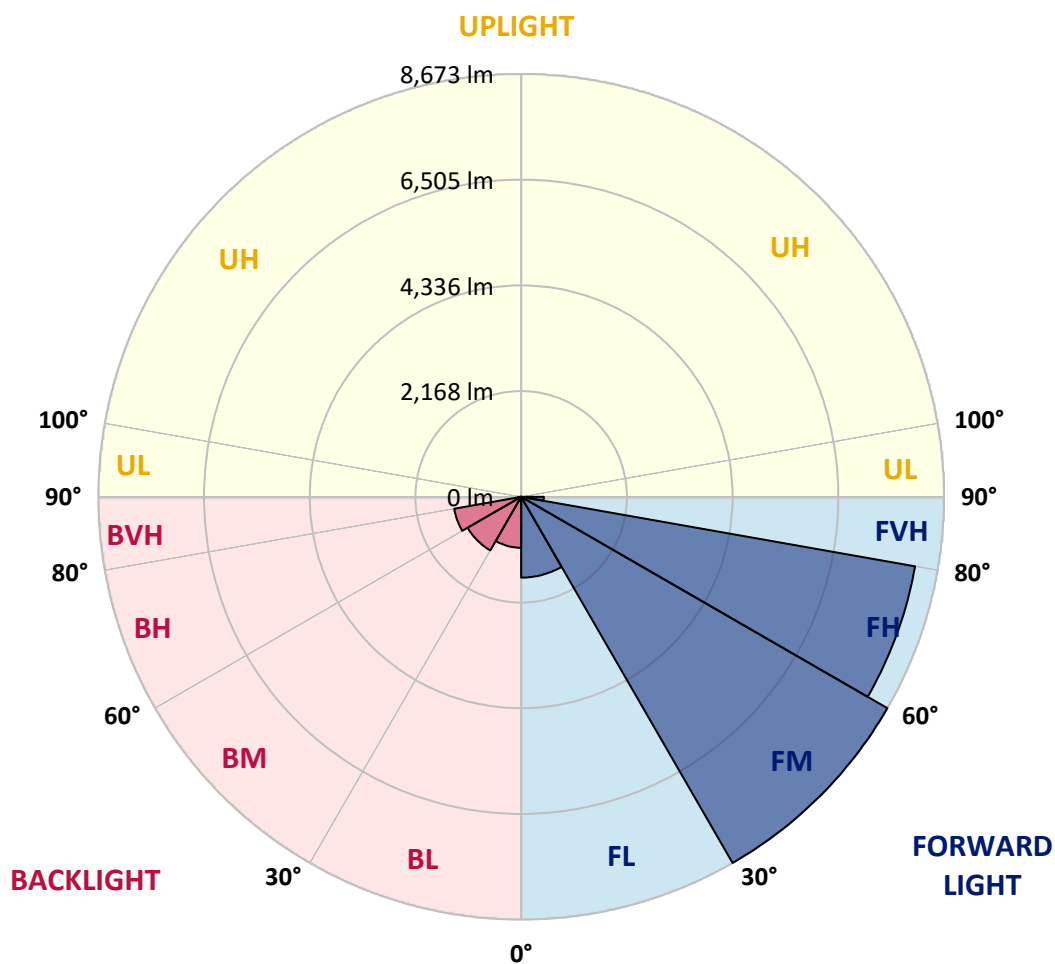
CATALOG NUMBER: GLEON-AF-05-LED-E1-SL2-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1657.4	7.3			
FM	(30°-60°)	8672.8	38.1			
FH	(60°-80°)	8205.0	36.0			G4/12000
FVH	(80°-90°)	465.4	2.0			G3/500
BL	(0°-30°)	1045.9	4.6	B3/2500		
BM	(30°-60°)	1268.0	5.6	B2/2500		
BH	(60°-80°)	1395.6	6.1	B3/2500		G3/2500
BVH	(80°-90°)	63.9	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: P192823

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL2-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3
2.5°	4710.1	4718.1	4742.7	4758.5	4829.2	4859.6	4880.8	4902.1	4905.5	4915.7	4905.5
5°	4216.0	4232.8	4278.9	4330.6	4467.6	4575.3	4688.8	4806.8	4828.0	4904.4	4925.7
7.5°	3833.1	3828.6	3866.6	3928.5	4069.0	4218.3	4417.1	4651.7	4697.8	4869.5	4952.7
10°	3553.4	3550.1	3590.5	3654.5	3788.1	3929.6	4154.2	4475.4	4540.6	4814.6	4978.5
12.5°	3346.7	3347.8	3388.3	3459.0	3594.9	3737.5	3965.6	4304.7	4387.9	4750.6	5005.5
15°	3209.7	3218.7	3251.2	3326.5	3459.0	3601.6	3825.1	4176.7	4269.9	4700.0	5035.9
17.5°	3163.7	3178.3	3189.5	3244.6	3358.0	3500.5	3719.6	4082.4	4181.2	4665.3	5062.7
20°	3206.3	3223.2	3201.9	3221.0	3292.8	3418.6	3636.4	4008.1	4109.3	4625.9	5066.2
22.5°	3389.4	3405.2	3342.2	3287.2	3282.7	3359.0	3568.0	3949.8	4054.3	4596.7	5067.2
25°	3711.7	3721.8	3616.3	3488.2	3363.5	3337.8	3519.7	3909.4	4020.6	4570.9	5045.9
27.5°	4107.0	4114.9	3993.7	3805.0	3554.5	3388.3	3502.9	3885.8	4001.5	4548.5	5010.0
30°	4587.7	4624.8	4461.9	4223.9	3858.8	3537.7	3536.5	3873.5	3980.1	4510.2	4939.3
32.5°	5079.7	5095.3	4983.1	4741.7	4268.8	3800.5	3630.9	3882.4	3974.6	4464.3	4849.4
35°	5578.2	5598.5	5525.5	5331.2	4829.2	4185.7	3815.0	3935.2	4009.4	4448.5	4786.5
37.5°	6224.1	6250.9	6149.8	5925.3	5510.9	4707.9	4121.7	4067.7	4116.1	4493.4	4767.4
40°	7244.9	7232.5	6937.2	6602.5	6256.6	5376.1	4559.6	4292.4	4320.4	4638.3	4825.9
42.5°	8433.0	8402.8	7894.1	7368.5	7076.4	6184.7	5139.1	4682.1	4676.4	4923.6	5031.4
45°	9381.0	9356.3	8898.1	8250.0	8016.5	7105.6	5888.2	5262.7	5221.2	5376.1	5410.9
47.5°	9894.2	9895.4	9631.4	9102.5	9096.8	8275.9	6850.7	6102.7	6030.9	6103.9	6066.8
50°	9714.6	9738.2	9710.1	9541.6	10082.9	9810.0	8107.5	7274.2	7129.2	7201.1	7058.4
52.5°	8845.3	8875.5	9041.9	9300.1	10497.3	11664.2	9953.7	8729.6	8561.1	8535.4	8376.9
55°	7304.4	7341.4	7680.7	8382.6	10152.5	12909.6	12867.0	10584.9	10316.5	10072.8	10005.4
57.5°	5034.6	5096.5	5642.2	6684.5	9037.3	13285.9	16336.1	13229.7	12683.9	11832.7	11848.4
60°	2838.0	2909.9	3553.4	4500.2	6786.7	12877.1	18975.4	17235.7	16083.4	13893.5	14010.4
62.5°	1804.8	1882.2	2370.8	3126.7	4072.2	10675.8	20056.8	22805.0	21341.6	16433.8	16548.4
65°	1461.2	1494.7	1724.9	2580.8	2957.0	6431.8	19235.8	27392.7	26846.9	19658.2	19123.5
67.5°	1426.3	1437.6	1556.6	2166.4	2835.8	3615.2	15343.4	28250.7	28856.1	22669.1	20196.1
70°	1409.5	1448.8	1754.2	2067.5	2715.5	3049.1	9220.4	25899.1	26854.9	23456.5	18768.7
72.5°	684.0	681.7	882.7	1869.9	3059.3	3162.5	4737.1	20955.3	21914.4	20321.9	15423.0
75°	551.4	504.2	481.9	685.0	2941.3	3265.9	3018.9	14419.1	15113.1	13625.0	9481.0
77.5°	523.4	467.2	427.9	429.1	1243.3	3463.5	2557.2	7980.6	8182.7	6154.3	2597.6
80°	433.5	381.9	353.8	398.7	602.0	3298.4	2765.1	3611.8	3314.2	1511.6	864.8
82.5°	301.0	274.0	266.1	334.7	481.9	2350.6	3215.4	1940.7	1627.3	756.9	533.4
85°	192.1	164.0	181.9	243.7	375.1	1084.8	3311.9	1512.8	1202.8	480.6	301.0
87.5°	88.7	71.9	89.8	134.7	244.8	374.0	3151.4	1699.2	1238.8	253.8	189.8
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: P192823

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL2-7030-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3
2.5°	4914.6	4893.1	4876.3	4844.9	4810.1	4776.4	4746.1	4707.9	4696.6	4686.5	4702.3
5°	4930.3	4908.9	4847.2	4750.6	4643.8	4544.0	4444.0	4358.6	4305.8	4276.6	4293.5
7.5°	4953.9	4923.6	4795.5	4618.1	4426.0	4250.8	4070.0	3925.1	3818.4	3768.0	3782.4
10°	4975.2	4916.7	4707.9	4441.7	4160.9	3900.4	3615.2	3379.3	3204.1	3112.0	3134.4
12.5°	4984.2	4891.0	4585.5	4221.6	3836.4	3454.6	3034.5	2681.9	2430.4	2338.2	2319.1
15°	4993.1	4861.7	4450.6	3971.1	3444.4	2904.2	2315.8	1893.5	1684.6	1638.6	1628.4
17.5°	4995.5	4811.2	4297.9	3699.4	2985.1	2249.5	1583.5	1315.2	1316.2	1390.4	1399.4
20°	4971.9	4736.0	4112.6	3361.4	2434.9	1555.5	1087.1	1041.1	1210.7	1396.0	1418.4
22.5°	4917.9	4636.0	3902.6	2967.2	1804.8	1024.2	841.2	891.7	1110.7	1337.6	1363.4
25°	4849.4	4514.7	3654.5	2510.0	1195.0	732.2	705.3	767.1	915.3	1066.9	1081.5
27.5°	4756.2	4371.0	3375.9	1986.7	776.1	603.1	621.0	662.6	723.3	790.6	797.4
30°	4636.0	4199.2	3078.4	1448.8	586.2	542.5	568.2	590.8	616.6	654.8	658.1
32.5°	4497.8	4034.1	2772.9	1000.7	520.0	511.0	531.2	542.5	562.6	586.2	588.5
35°	4382.2	3876.8	2456.1	707.6	491.8	487.4	500.9	505.5	524.5	550.3	552.6
37.5°	4316.0	3748.8	2129.4	570.6	472.8	466.1	473.9	473.9	500.9	539.0	544.6
40°	4320.4	3678.0	1802.6	515.4	457.1	448.1	449.3	449.3	484.0	525.6	529.0
42.5°	4442.8	3696.0	1512.8	494.2	444.6	434.7	429.1	432.3	461.6	488.5	490.8
45°	4730.4	3822.9	1240.9	480.6	432.3	429.1	416.6	415.5	426.7	439.1	439.1
47.5°	5202.1	4073.4	1056.7	471.7	422.3	421.2	406.6	391.9	390.8	395.3	395.3
50°	5969.1	4504.6	933.3	461.6	415.5	406.6	389.7	367.2	359.4	362.7	362.7
52.5°	7119.2	5274.0	886.1	448.1	401.0	386.3	367.2	344.8	338.0	339.1	339.1
55°	8627.4	6455.4	879.3	432.3	385.2	361.6	346.0	329.1	321.2	323.4	323.4
57.5°	10470.4	8089.4	999.5	407.6	363.9	336.9	327.9	316.8	311.1	314.4	313.3
60°	12710.9	10227.8	1482.4	381.9	342.5	314.4	314.4	305.5	301.0	304.4	303.2
62.5°	15291.7	12683.9	2084.4	362.7	320.0	296.5	301.0	296.5	292.0	294.2	293.2
65°	17580.5	14284.3	1951.9	348.1	297.6	279.6	287.5	285.2	281.9	284.2	283.0
67.5°	17646.8	13691.3	1096.1	332.4	276.3	262.8	274.0	272.9	270.6	272.9	271.7
70°	15748.7	11560.8	617.7	303.2	253.8	242.5	258.3	257.2	254.9	259.4	258.3
72.5°	12617.7	8389.4	451.5	267.2	231.3	221.2	239.2	238.0	238.0	244.8	241.5
75°	7260.6	4317.1	360.5	229.1	207.8	200.0	215.7	216.8	218.9	228.1	221.2
77.5°	2069.8	1345.4	294.2	194.3	178.5	175.3	190.8	193.2	194.3	204.5	195.5
80°	769.3	619.9	242.5	162.8	146.0	147.2	161.7	165.1	166.2	176.4	165.1
82.5°	490.8	408.8	196.5	125.7	114.5	113.4	131.4	135.9	135.9	137.0	130.2
85°	286.4	244.8	148.3	91.0	80.9	77.5	97.7	105.6	102.1	100.0	95.5
87.5°	192.1	168.5	91.0	50.6	43.8	41.5	57.3	63.0	60.6	57.3	53.9
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)