

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: P192832

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192832
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-04-LED-E1-SL2-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 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: 22750 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 225
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



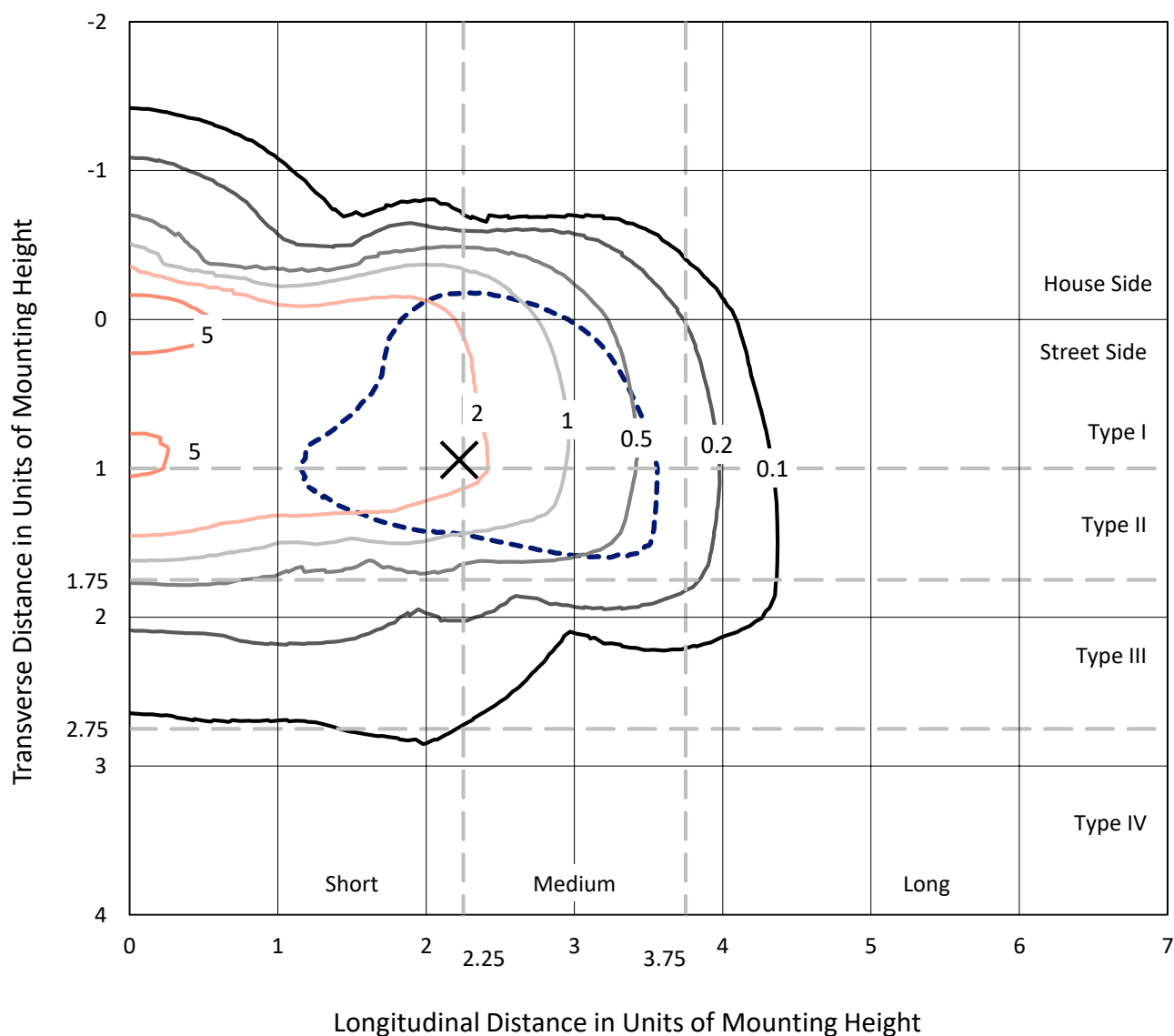
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

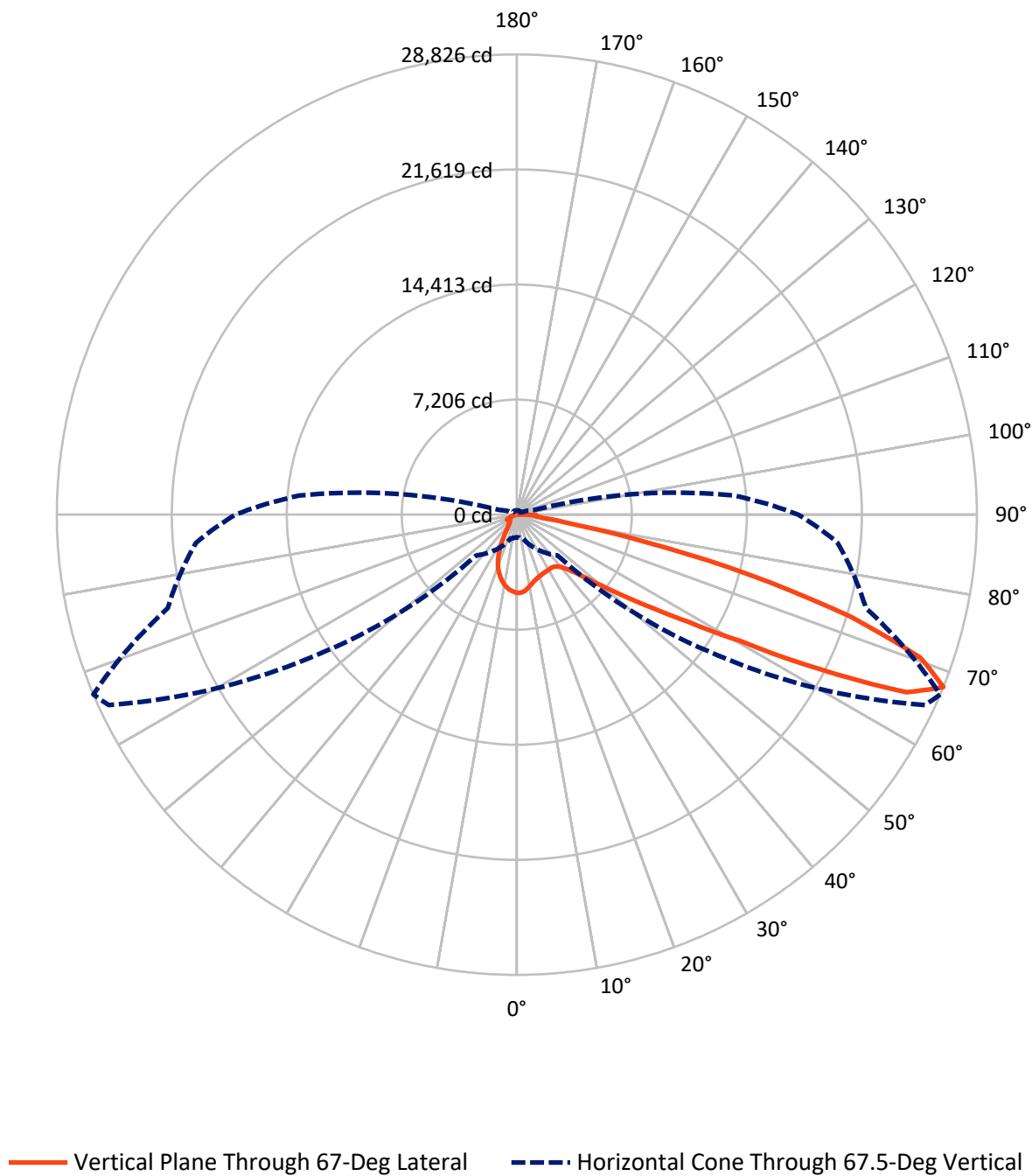


Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3769.4	0.0	3769.4
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	18980.6	0.0	18980.6
	% Fixture	83.4	0.0	83.4
Total	Lumens	22750.0	0.0	22750.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.7	1.8
10°-20°	968.7	4.3
20°-30°	1313.1	5.8
30°-40°	1866.7	8.2
40°-50°	3123.0	13.7
50°-60°	4940.6	21.7
60°-70°	6293.8	27.7
70°-80°	3296.7	14.5
80°-90°	528.7	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°	22750.0	100.0
0°-180°	22750.0	100.0

Coefficient of Utilization



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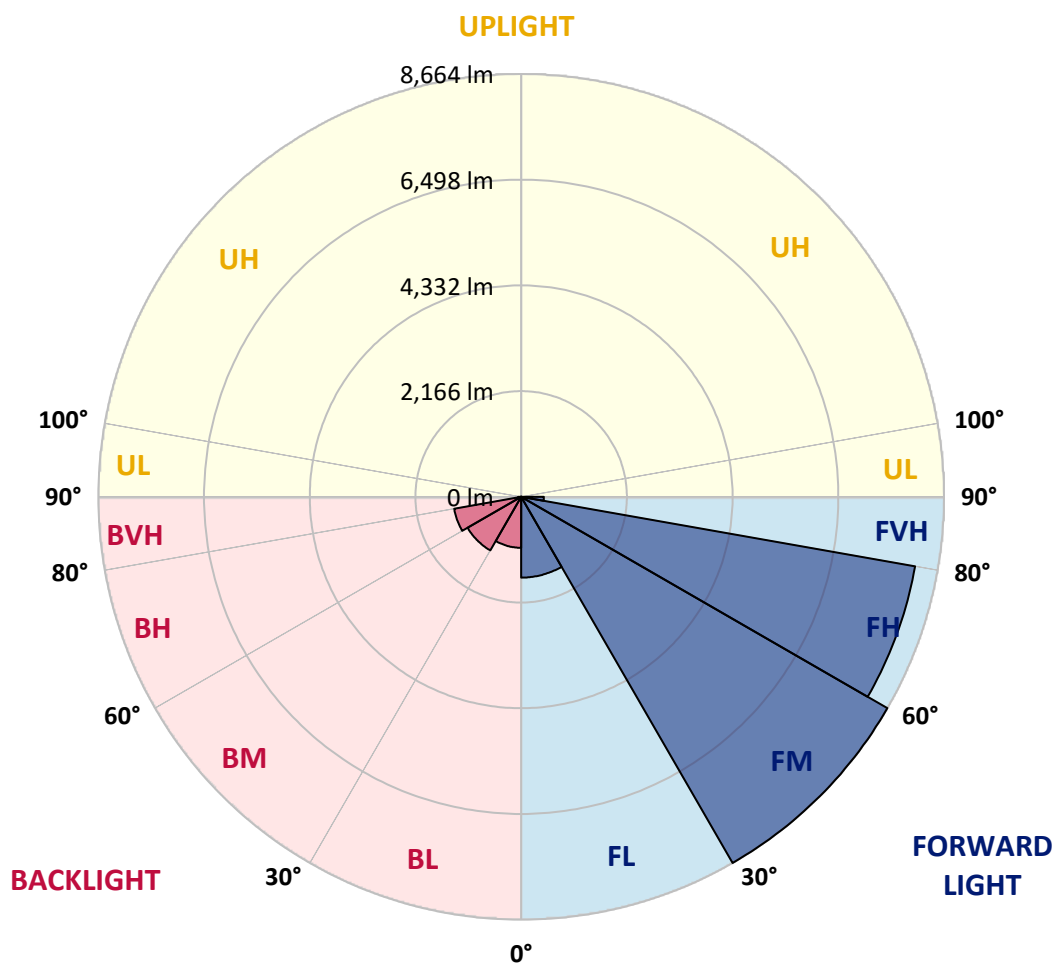
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1655.6	7.3			
FM	(30°-60°)	8663.7	38.1			
FH	(60°-80°)	8196.3	36.0			G4/12000
FVH	(80°-90°)	464.9	2.0			G3/500
BL	(0°-30°)	1044.8	4.6	B3/2500		
BM	(30°-60°)	1266.6	5.6	B2/2500		
BH	(60°-80°)	1394.2	6.1	B3/2500		G3/2500
BVH	(80°-90°)	63.8	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4907.2	4907.2	4907.2	4907.2	4907.2	4907.2	4907.2	4907.2	4907.2	4907.2	4907.2
2.5°	4705.1	4713.0	4737.7	4753.5	4824.2	4854.4	4875.7	4897.0	4900.4	4910.4	4900.4
5°	4211.5	4228.4	4274.3	4326.0	4462.8	4570.6	4683.8	4801.6	4822.9	4899.3	4920.6
7.5°	3829.0	3824.5	3862.7	3924.4	4064.6	4213.8	4412.3	4646.8	4692.8	4864.4	4947.5
10°	3549.7	3546.2	3586.7	3650.6	3784.0	3925.4	4149.8	4470.7	4535.8	4809.5	4973.3
12.5°	3343.3	3344.3	3384.8	3455.5	3591.2	3733.6	3961.4	4300.2	4383.2	4745.5	5000.2
15°	3206.3	3215.3	3247.8	3323.0	3455.5	3597.9	3821.2	4172.3	4265.4	4695.1	5030.6
17.5°	3160.4	3175.0	3186.1	3241.0	3354.5	3497.0	3715.7	4078.0	4176.8	4660.4	5057.4
20°	3202.9	3219.8	3198.4	3217.5	3289.4	3415.0	3632.7	4004.1	4105.0	4621.0	5060.8
22.5°	3385.8	3401.6	3338.8	3283.8	3279.3	3355.6	3564.2	3945.7	4050.0	4591.8	5062.0
25°	3707.8	3717.9	3612.4	3484.6	3360.0	3334.3	3516.0	3905.3	4016.4	4566.1	5040.5
27.5°	4102.6	4110.6	3989.4	3800.9	3550.7	3384.8	3499.1	3881.8	3997.2	4543.6	5004.7
30°	4582.9	4619.9	4457.2	4219.4	3854.7	3533.9	3532.8	3869.4	3976.0	4505.6	4934.0
32.5°	5074.2	5090.0	4977.8	4736.6	4264.3	3796.4	3627.1	3878.3	3970.4	4459.5	4844.3
35°	5572.4	5592.6	5519.7	5325.7	4824.2	4181.3	3811.1	3931.0	4005.1	4443.8	4781.5
37.5°	6217.5	6244.3	6143.4	5919.0	5505.0	4702.9	4117.3	4063.5	4111.7	4488.7	4762.4
40°	7237.3	7224.9	6929.9	6595.6	6249.9	5370.4	4554.8	4287.9	4315.8	4633.3	4820.7
42.5°	8424.2	8394.0	7885.7	7360.7	7069.0	6178.2	5133.8	4677.2	4671.5	4918.3	5026.0
45°	9371.0	9346.4	8888.7	8241.3	8007.9	7098.1	5882.0	5257.1	5215.6	5370.4	5405.3
47.5°	9883.8	9884.9	9621.3	9092.9	9087.2	8267.1	6843.5	6096.3	6024.5	6097.4	6060.4
50°	9704.3	9727.8	9699.8	9531.6	10072.3	9799.7	8098.9	7266.4	7121.7	7193.5	7051.0
52.5°	8835.9	8866.3	9032.3	9290.4	10486.2	11651.9	9943.2	8720.4	8552.2	8526.3	8368.1
55°	7296.8	7333.7	7672.5	8373.7	10141.8	12896.0	12853.4	10573.8	10305.7	10062.1	9994.8
57.5°	5029.4	5091.2	5636.3	6677.5	9027.8	13271.8	16318.9	13215.8	12670.6	11820.1	11835.8
60°	2835.0	2906.9	3549.7	4495.4	6779.5	12863.5	18955.3	17217.5	16066.5	13878.7	13995.4
62.5°	1802.9	1880.3	2368.3	3123.2	4067.9	10664.6	20035.6	22780.9	21319.1	16416.5	16530.9
65°	1459.6	1493.2	1723.2	2578.1	2954.0	6425.0	19215.7	27363.9	26818.6	19637.3	19103.4
67.5°	1424.7	1436.0	1555.0	2164.1	2832.8	3611.3	15327.1	28220.9	28825.7	22645.2	20174.8
70°	1408.0	1447.2	1752.4	2065.4	2712.7	3045.9	9210.7	25871.7	26826.4	23431.6	18748.9
72.5°	683.2	681.0	881.8	1867.9	3056.0	3159.2	4732.1	20933.2	21891.3	20300.5	15406.7
75°	550.8	503.6	481.3	684.4	2938.2	3262.5	3015.7	14403.8	15097.1	13610.7	9470.9
77.5°	522.8	466.7	427.4	428.6	1242.0	3459.9	2554.5	7972.1	8174.0	6147.9	2594.9
80°	433.0	381.5	353.4	398.2	601.4	3294.9	2762.1	3608.0	3310.7	1510.1	863.8
82.5°	300.7	273.7	265.9	334.4	481.3	2348.1	3211.9	1938.6	1625.6	756.2	532.8
85°	191.9	163.8	181.7	243.4	374.8	1083.8	3308.5	1511.2	1201.6	480.2	300.7
87.5°	88.6	71.8	89.7	134.6	244.5	373.5	3148.0	1697.5	1237.5	253.6	189.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4907.2	4907.2	4907.2	4907.2	4907.2	4907.2	4907.2	4907.2	4907.2	4907.2	4907.2
2.5°	4909.3	4888.0	4871.3	4839.7	4805.0	4771.4	4741.1	4702.9	4691.7	4681.6	4697.3
5°	4925.1	4903.8	4842.1	4745.5	4638.9	4539.1	4439.3	4354.0	4301.3	4272.1	4289.0
7.5°	4948.6	4918.3	4790.5	4613.2	4421.2	4246.4	4065.6	3921.0	3814.3	3763.9	3778.5
10°	4969.9	4911.6	4702.9	4437.0	4156.5	3896.3	3611.3	3375.8	3200.7	3108.8	3131.2
12.5°	4979.0	4885.7	4580.7	4217.2	3832.4	3451.0	3031.3	2679.0	2427.7	2335.8	2316.8
15°	4987.9	4856.6	4446.0	3966.9	3440.8	2901.2	2313.3	1891.5	1682.8	1636.8	1626.8
17.5°	4990.1	4806.1	4293.5	3695.4	2982.0	2247.1	1581.8	1313.8	1314.8	1388.9	1397.9
20°	4966.6	4730.9	4108.3	3357.7	2432.2	1553.7	1085.9	1040.0	1209.4	1394.4	1417.0
22.5°	4912.8	4631.2	3898.6	2963.9	1802.9	1023.1	840.3	890.8	1109.5	1336.1	1361.9
25°	4844.3	4510.0	3650.6	2507.4	1193.6	731.5	704.5	766.2	914.3	1065.9	1080.3
27.5°	4751.1	4366.3	3372.4	1984.5	775.2	602.4	620.4	661.9	722.5	789.8	796.5
30°	4631.2	4194.7	3075.1	1447.2	585.6	541.8	567.7	590.1	615.9	654.0	657.4
32.5°	4493.2	4029.8	2769.9	999.6	519.4	510.5	530.7	541.8	562.0	585.6	587.9
35°	4377.6	3872.7	2453.5	706.8	491.3	486.9	500.4	504.9	523.9	549.7	552.0
37.5°	4311.4	3744.9	2127.1	569.9	472.3	465.6	473.4	473.4	500.4	538.5	544.1
40°	4315.8	3674.2	1800.6	514.9	456.6	447.6	448.7	448.7	483.6	525.0	528.4
42.5°	4438.1	3692.1	1511.2	493.7	444.2	434.2	428.6	431.9	461.1	488.1	490.2
45°	4725.4	3818.9	1239.6	480.2	431.9	428.6	416.2	415.0	426.3	438.6	438.6
47.5°	5196.6	4069.1	1055.7	471.2	421.8	420.7	406.1	391.5	390.4	394.9	394.9
50°	5962.9	4499.9	932.3	461.1	415.0	406.1	389.3	366.9	359.0	362.4	362.4
52.5°	7111.5	5268.4	885.2	447.6	400.6	385.9	366.9	344.3	337.7	338.8	338.8
55°	8618.3	6448.6	878.5	431.9	384.8	361.2	345.6	328.8	320.9	323.1	323.1
57.5°	10459.3	8081.0	998.5	407.2	363.5	336.5	327.6	316.5	310.8	314.1	313.0
60°	12697.4	10217.0	1480.9	381.5	342.2	314.1	314.1	305.2	300.7	304.1	302.8
62.5°	15275.5	12670.6	2082.3	362.4	319.7	296.2	300.7	296.2	291.7	293.9	292.9
65°	17561.9	14269.3	1949.8	347.8	297.3	279.3	287.3	284.9	281.6	283.8	282.8
67.5°	17628.1	13676.8	1095.0	332.0	276.0	262.6	273.7	272.6	270.4	272.6	271.5
70°	15732.1	11548.7	617.0	302.8	253.6	242.3	258.1	256.9	254.7	259.2	258.1
72.5°	12604.3	8380.4	451.0	267.0	231.1	221.0	239.0	237.8	237.8	244.5	241.3
75°	7252.9	4312.5	360.1	228.9	207.6	199.7	215.3	216.6	218.7	227.7	221.0
77.5°	2067.6	1344.0	293.9	194.1	178.4	175.1	190.7	193.0	194.1	204.2	195.2
80°	768.5	619.3	242.3	162.7	145.9	147.0	161.6	164.9	166.1	176.1	164.9
82.5°	490.2	408.4	196.3	125.6	114.4	113.3	131.2	135.7	135.7	136.9	130.1
85°	286.0	244.5	148.0	90.9	80.8	77.3	97.6	105.4	102.0	99.9	95.4
87.5°	191.9	168.3	90.9	50.5	43.7	41.5	57.3	62.9	60.5	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)