

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: P192914

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192914
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-06-LED-E1-SL3-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA 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: 34435.2 lumens
Efficiency: N/A
Efficacy: 103.4 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 - 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

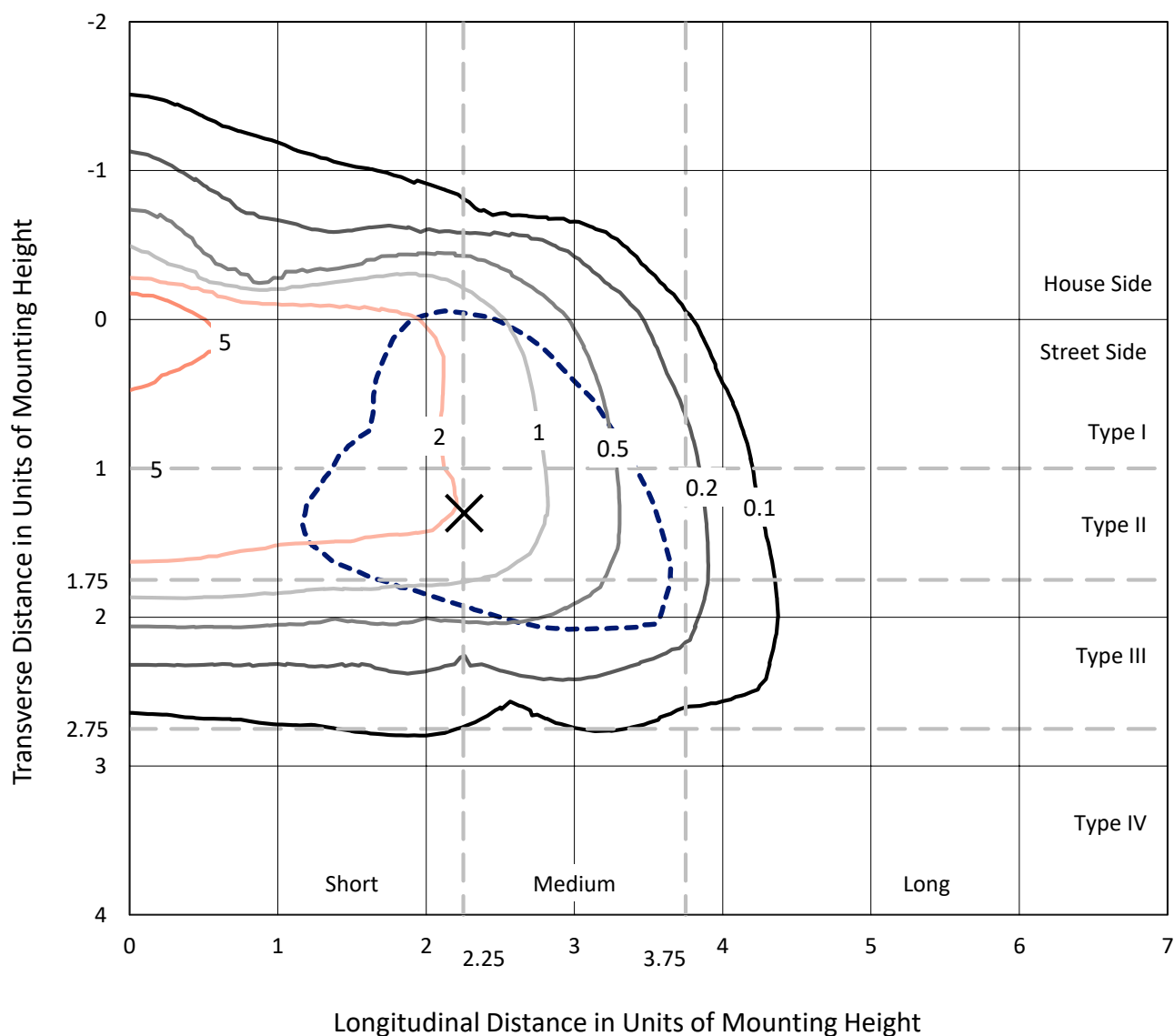


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

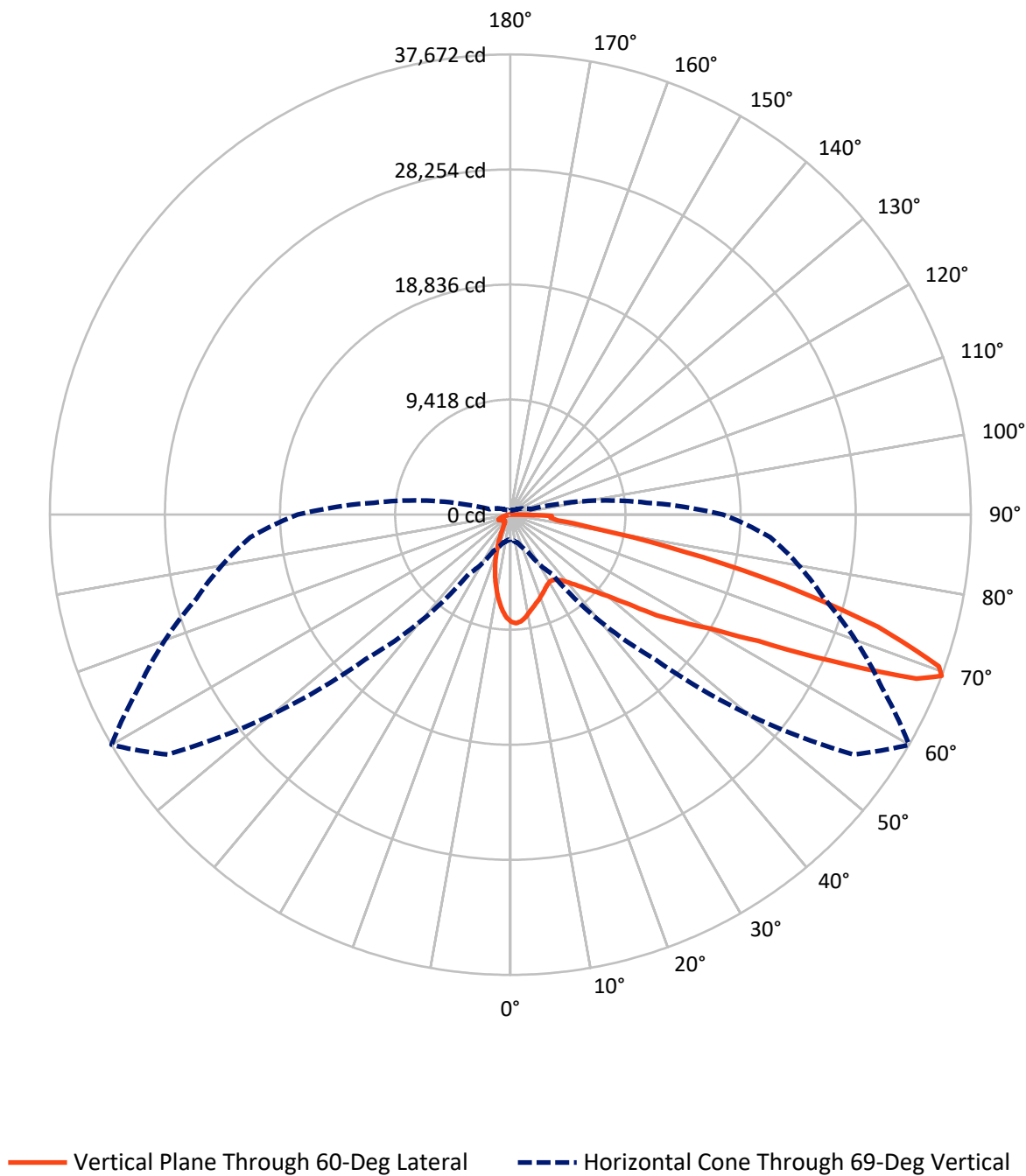


Based on 30 foot mounting height. Maximum calculated value = 9.7 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4899.0	0.0	4899.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	29536.2	0.0	29536.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	34435.2	0.0	34435.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	741.9	2.2
10°-20°	1580.7	4.6
20°-30°	2014.1	5.8
30°-40°	2768.9	8.0
40°-50°	4492.8	13.0
50°-60°	7205.3	20.9
60°-70°	9589.8	27.8
70°-80°	5177.7	15.0
80°-90°	863.9	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°	34435.2	100.0
0°-180°	34435.2	100.0

Coefficient of Utilization



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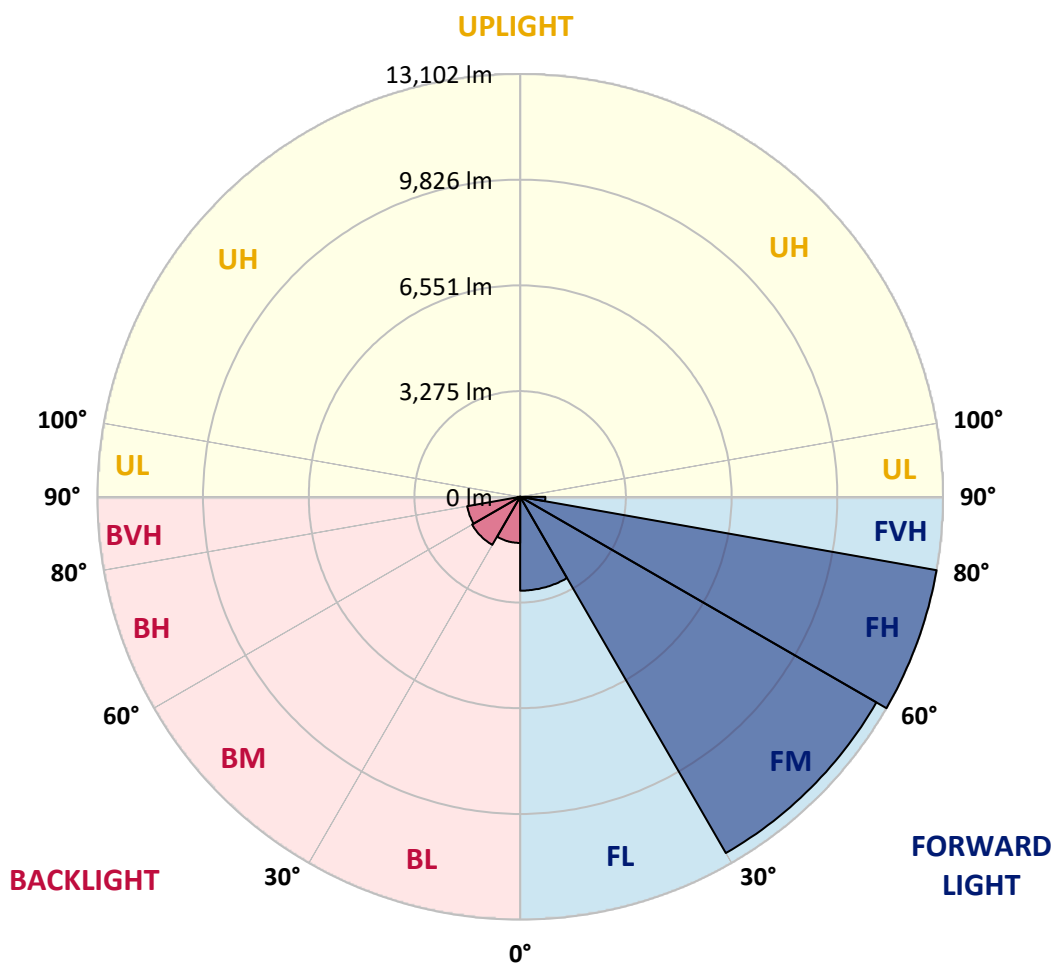
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2907.6	8.4			
FM	(30°-60°)	12745.9	37.0			
FH	(60°-80°)	13101.9	38.0			G5
FVH	(80°-90°)	780.7	2.3			G5
BL	(0°-30°)	1429.2	4.2	B3/2500		
BM	(30°-60°)	1721.1	5.0	B2/2500		
BH	(60°-80°)	1665.5	4.8	B3/2500		G3/2500
BVH	(80°-90°)	83.2	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-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	8774.6	8774.6	8774.6	8774.6	8774.6	8774.6	8774.6	8774.6	8774.6	8774.6	8774.6
2.5°	8954.3	8974.2	8966.0	8960.9	8975.8	8952.6	8904.4	8889.5	8866.1	8811.2	8718.1
5°	8618.3	8678.1	8674.8	8719.8	8794.6	8814.5	8792.9	8796.3	8753.0	8684.8	8530.1
7.5°	8037.7	8062.7	8076.0	8174.1	8310.5	8420.3	8513.5	8543.4	8523.5	8465.2	8265.6
10°	7438.9	7458.8	7490.5	7605.2	7778.2	7929.6	8106.0	8207.3	8250.6	8240.7	8017.8
12.5°	6924.9	6944.8	6986.5	7116.2	7322.4	7508.8	7764.9	7891.4	7994.5	8056.0	7816.5
15°	6464.1	6507.4	6547.3	6696.9	6928.2	7172.8	7462.2	7621.8	7781.6	7919.6	7638.6
17.5°	6104.9	6148.0	6171.4	6307.7	6553.9	6853.4	7192.6	7380.7	7580.3	7806.5	7462.2
20°	5896.8	5916.8	5906.9	5983.4	6204.7	6522.3	6924.9	7142.9	7384.0	7700.0	7285.9
22.5°	5838.7	5840.4	5803.8	5795.4	5938.5	6206.3	6638.8	6903.2	7199.3	7630.2	7134.5
25°	5980.1	5975.1	5875.3	5793.8	5808.8	5965.1	6362.6	6670.4	7044.6	7615.3	7018.0
27.5°	6294.4	6309.4	6161.3	6008.2	5857.0	5851.9	6153.1	6477.4	6918.2	7683.4	6968.1
30°	6735.3	6760.2	6602.2	6407.5	6123.1	5888.5	6071.5	6362.6	6840.0	7824.8	6959.9
32.5°	7217.6	7244.2	7124.5	6919.9	6547.3	6114.8	6128.2	6372.6	6836.7	8022.8	7016.4
35°	7731.6	7761.6	7700.0	7527.1	7112.9	6532.3	6344.3	6533.9	6944.8	8325.4	7167.7
37.5°	8305.6	8352.1	8368.7	8204.1	7761.6	7082.9	6698.6	6840.0	7189.4	8746.3	7445.6
40°	9132.2	9197.1	9192.1	8956.0	8505.2	7826.5	7246.0	7282.5	7570.2	9308.6	7889.7
42.5°	10715.8	10729.1	10314.9	9801.0	9323.5	8608.3	7891.4	7861.4	8095.9	10020.5	8543.4
45°	12730.3	12675.3	11753.8	10760.7	10178.6	9506.5	8731.4	8584.9	8763.0	10888.9	9361.8
47.5°	14402.0	14275.6	13111.2	11740.6	11083.5	10483.0	9717.7	9461.7	9559.7	11873.6	10419.7
50°	14982.6	14887.7	13922.9	12555.6	11940.2	11674.1	10932.1	10569.5	10596.1	13048.0	11659.0
52.5°	14857.8	14844.5	14200.8	13092.9	12742.0	12925.0	12652.1	12161.4	11901.8	14352.1	12996.4
55°	14563.3	14591.7	14358.8	13718.4	13658.5	14132.5	14899.3	14536.7	13729.9	15667.9	14378.7
57.5°	13540.4	13613.6	14125.9	14505.1	15133.9	15839.2	16709.2	16606.1	15697.9	17090.2	16022.3
60°	10908.8	11078.5	12452.5	14352.1	16652.6	18858.3	19247.6	19008.1	17727.2	18855.1	18193.0
62.5°	7643.4	7819.8	9453.3	12425.8	16403.1	22268.4	23785.4	22752.4	20641.6	21455.0	21002.6
65°	4092.1	4176.9	5424.5	8621.5	13848.1	22972.1	30417.6	28845.6	25256.0	24660.5	23406.2
67.5°	2257.3	2303.8	2781.3	4353.2	8869.4	20229.1	34642.8	35830.4	31023.1	26794.6	22968.7
69°	2041.1	2084.3	2397.0	3296.9	5935.2	16725.9	34230.2	37671.8	33551.5	26583.4	21351.9
70°	1996.1	2036.0	2317.2	3039.0	4804.0	13786.6	32847.8	37201.0	34153.7	25826.4	19941.2
72.5°	1796.5	1839.7	2112.5	2729.8	4105.3	6873.3	26019.4	31453.9	31008.1	22393.1	15125.7
75°	1675.1	1715.1	2177.4	2673.1	3930.7	4349.8	17153.3	23181.6	22794.1	15664.6	8155.8
77.5°	717.0	713.6	1009.7	2262.3	3988.9	4211.8	9217.1	14481.9	13212.7	6695.3	2342.1
80°	479.1	470.8	479.1	665.4	3657.9	4235.1	4828.9	7350.8	5552.5	1706.7	1154.5
82.5°	412.6	405.9	420.8	405.9	1285.9	4833.9	4105.3	3909.1	2639.9	969.7	572.2
85°	277.8	266.1	362.6	364.3	607.2	4295.0	4624.4	3302.0	2135.8	575.6	282.8
87.5°	133.1	129.8	211.3	257.9	355.9	1745.0	5188.2	3383.4	2154.1	294.5	134.7
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°	8774.6	8774.6	8774.6	8774.6	8774.6	8774.6	8774.6	8774.6	8774.6	8774.6	8774.6
2.5°	8689.8	8621.5	8555.0	8475.2	8391.9	8298.9	8252.4	8205.7	8194.1	8180.8	8134.3
5°	8450.2	8353.8	8187.5	8004.5	7811.5	7623.6	7480.4	7390.7	7322.4	7287.5	7226.0
7.5°	8140.9	7999.4	7708.4	7392.3	7068.0	6771.9	6515.6	6354.3	6201.3	6129.8	6048.3
10°	7846.5	7635.1	7182.7	6716.9	6251.2	5803.8	5382.8	5085.2	4820.6	4672.6	4567.8
12.5°	7593.6	7304.1	6677.1	6046.6	5407.8	4770.7	4140.3	3644.6	3230.4	3012.5	2901.1
15°	7347.3	6998.0	6196.3	5396.2	4576.1	3709.5	2881.0	2318.8	1976.2	1839.7	1793.2
17.5°	7124.5	6677.1	5713.9	4740.8	3717.8	2669.9	1936.3	1626.9	1495.4	1450.5	1435.5
20°	6883.4	6352.7	5213.2	4055.4	2822.8	1866.3	1512.0	1375.7	1322.5	1309.2	1302.5
22.5°	6650.4	6033.3	4734.1	3321.9	2027.8	1440.6	1299.1	1242.6	1234.3	1245.9	1245.9
25°	6452.5	5747.1	4216.9	2555.0	1488.7	1212.7	1162.7	1149.4	1181.1	1224.2	1232.6
27.5°	6304.4	5512.6	3666.2	1886.4	1186.0	1054.6	1052.9	1074.6	1152.8	1235.9	1252.5
30°	6202.9	5289.7	3077.4	1360.8	994.7	928.1	954.8	1001.4	1116.2	1234.3	1265.9
32.5°	6151.4	5125.1	2463.6	1052.9	851.6	815.1	860.0	916.5	1029.7	1139.5	1181.1
35°	6191.2	5003.6	1884.7	878.3	751.9	723.7	770.2	825.0	891.5	938.2	969.7
37.5°	6341.0	4955.4	1422.2	786.7	683.6	657.0	693.7	725.3	751.9	765.2	780.1
40°	6663.7	5007.0	1139.5	740.2	645.4	612.2	627.1	638.7	655.4	668.6	675.3
42.5°	7139.4	5161.6	1021.3	721.9	625.4	577.2	573.9	578.8	600.5	625.4	630.4
45°	7804.8	5434.4	1013.1	733.5	615.4	548.9	533.9	540.7	573.9	612.2	618.9
47.5°	8654.9	5850.3	1079.6	768.5	623.8	533.9	509.0	517.4	558.9	610.4	618.9
50°	9684.5	6430.9	1191.0	820.1	660.4	537.3	500.7	505.7	548.9	605.6	613.8
52.5°	10900.5	7254.3	1312.4	869.9	698.6	558.9	507.4	495.7	535.6	585.5	595.5
55°	12252.9	8310.5	1437.2	914.9	718.6	585.5	520.6	482.4	510.7	552.3	560.6
57.5°	13913.0	9787.7	1653.4	958.1	731.9	603.8	533.9	469.0	479.1	509.0	515.7
60°	16160.3	11876.9	2034.4	1029.7	761.9	610.4	532.3	457.5	447.4	464.2	467.4
62.5°	18853.3	14145.9	2352.2	1119.5	811.8	615.4	522.4	449.2	420.8	420.8	424.2
65°	20451.9	14753.1	2175.8	1194.3	853.4	610.4	510.7	440.9	400.9	382.6	384.3
67.5°	19096.3	12974.7	1864.7	1209.3	851.6	587.2	492.4	425.9	380.9	352.7	350.9
69°	17397.9	11194.9	1724.9	1169.4	811.8	557.2	469.0	409.1	365.9	336.0	334.4
70°	16028.9	10108.6	1633.5	1126.1	768.5	535.6	450.8	394.2	354.3	326.0	322.8
72.5°	11654.0	6623.9	1395.6	968.1	633.8	449.2	389.3	346.1	316.1	299.4	296.1
75°	5823.7	3158.9	1132.8	785.1	485.7	359.4	319.4	289.4	274.5	271.2	269.5
77.5°	1912.9	1447.1	810.0	585.5	361.0	281.2	257.9	236.2	232.8	242.9	239.5
80°	1051.3	841.8	513.9	387.6	246.2	206.3	202.9	191.3	196.3	212.9	209.6
82.5°	535.6	437.5	317.7	232.8	166.3	148.0	161.3	154.7	161.3	176.4	174.7
85°	264.5	239.5	201.2	141.4	109.8	94.8	114.8	119.7	123.1	134.7	134.7
87.5°	153.1	141.4	106.4	66.5	54.8	49.9	66.5	64.9	76.5	83.1	81.5
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)