

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: P191088

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191088
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-10-LED-E1-SL2-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 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: 47702.2 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 419
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

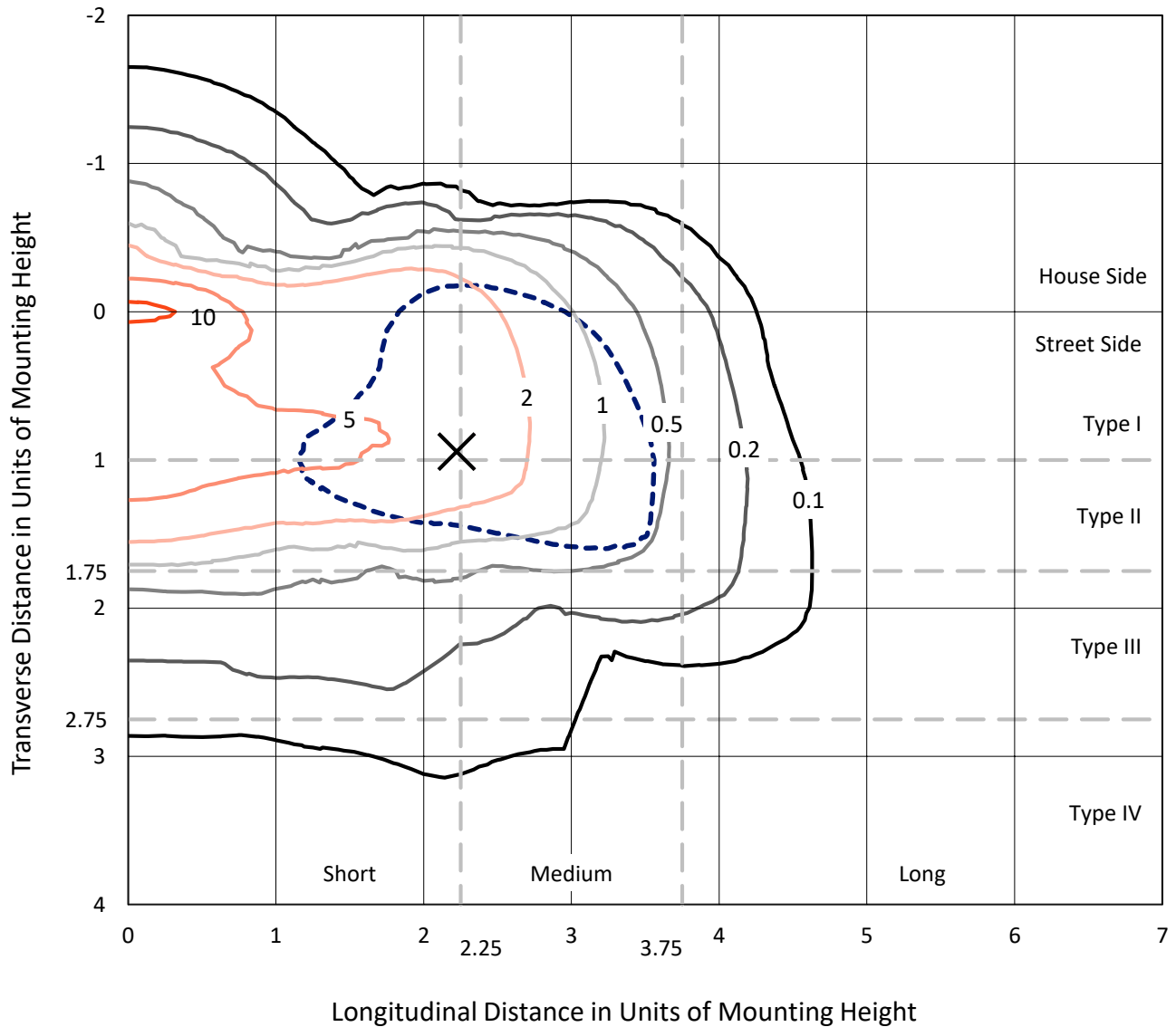


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Iso-Footcandle Lines of Horizontal Illumination

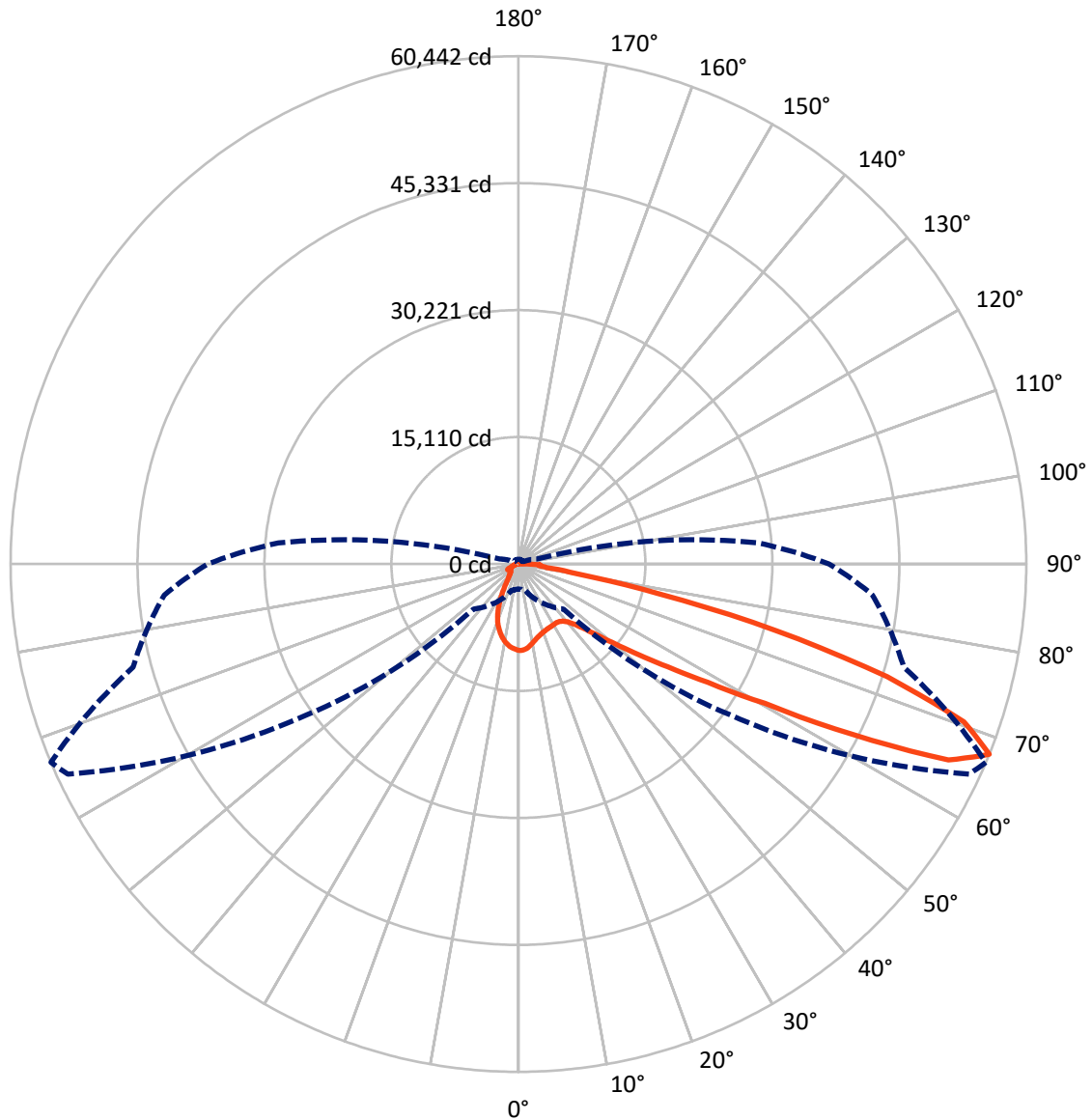
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7903.7	0.0	7903.7
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	39798.5	0.0	39798.5
	% Fixture	83.4	0.0	83.4
Total	Lumens	47702.2	0.0	47702.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	877.8	1.8
10°-20°	2031.2	4.3
20°-30°	2753.3	5.8
30°-40°	3914.1	8.2
40°-50°	6548.4	13.7
50°-60°	10359.5	21.7
60°-70°	13196.9	27.7
70°-80°	6912.5	14.5
80°-90°	1108.7	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°	47702.2	100.0
0°-180°	47702.2	100.0



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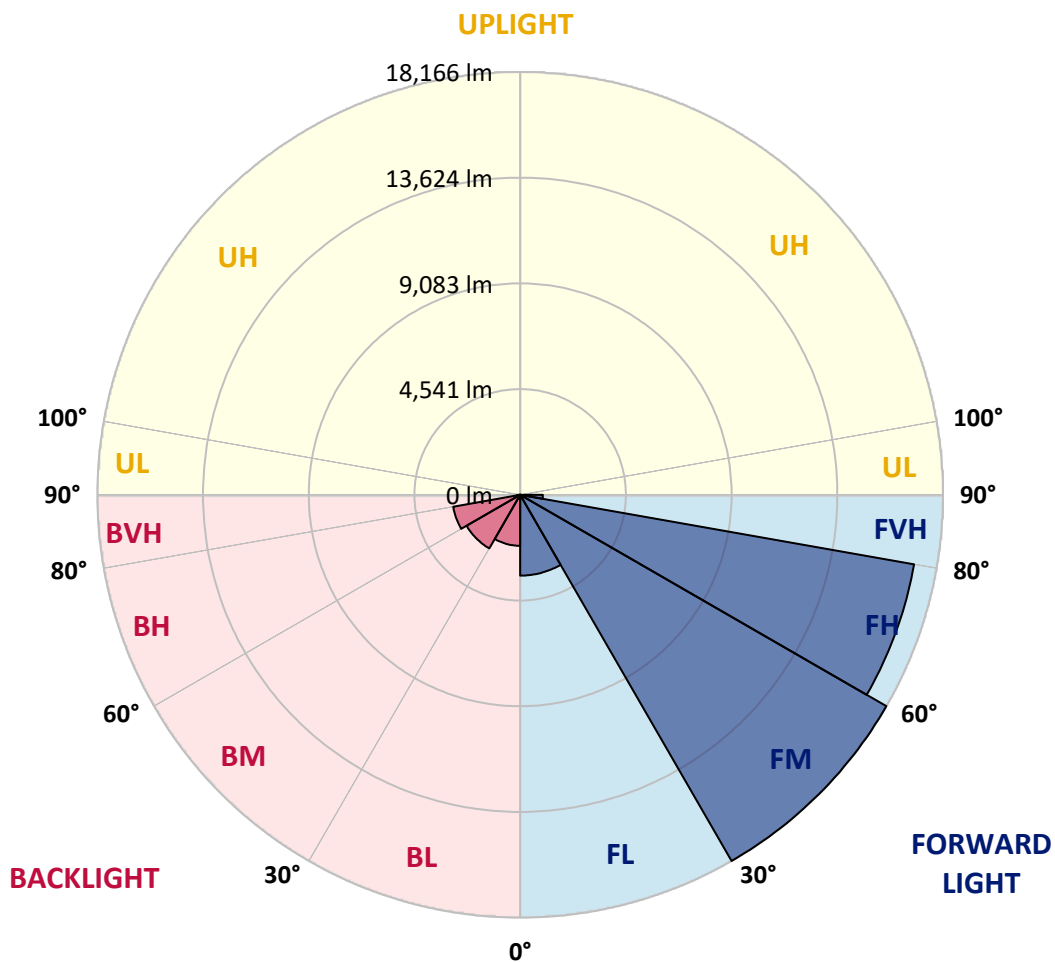
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3471.6	7.3			
FM (30°-60°)	18166.0	38.1			
FH (60°-80°)	17186.1	36.0			G5
FVH (80°-90°)	974.8	2.0			G5
BL (0°-30°)	2190.7	4.6	B3/2500		
BM (30°-60°)	2655.9	5.6	B3/5000		
BH (60°-80°)	2923.3	6.1	B4/5000		G4/5000
BVH (80°-90°)	133.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	10289.2	10289.2	10289.2	10289.2	10289.2	10289.2	10289.2	10289.2	10289.2	10289.2	10289.2
2.5°	9865.8	9882.3	9934.1	9967.0	10115.1	10178.7	10223.4	10268.1	10275.1	10296.3	10275.1
5°	8830.8	8866.1	8962.5	9070.7	9357.7	9583.5	9821.1	10068.1	10112.8	10272.8	10317.5
7.5°	8028.6	8019.2	8099.2	8228.6	8522.6	8835.5	9251.9	9743.5	9840.0	10199.8	10373.9
10°	7442.9	7435.8	7520.5	7654.6	7934.5	8231.0	8701.4	9374.2	9510.6	10084.6	10428.1
12.5°	7010.1	7012.4	7097.1	7245.3	7529.9	7828.6	8306.3	9016.6	9190.7	9950.5	10484.5
15°	6723.0	6741.9	6810.1	6967.7	7245.3	7544.1	8012.2	8748.5	8943.7	9844.7	10548.1
17.5°	6626.6	6657.2	6680.7	6796.0	7033.6	7332.3	7791.0	8550.8	8757.9	9771.7	10604.5
20°	6716.0	6751.3	6706.6	6746.6	6897.1	7160.7	7617.0	8395.6	8607.3	9689.4	10611.6
22.5°	7099.5	7132.4	7000.7	6885.4	6876.0	7036.0	7473.5	8273.3	8492.0	9628.2	10613.9
25°	7774.5	7795.7	7574.6	7306.4	7045.4	6991.3	7372.3	8188.6	8421.4	9574.1	10569.2
27.5°	8602.6	8619.1	8365.0	7969.8	7445.2	7097.1	7337.0	8139.2	8381.4	9527.0	10493.9
30°	9609.4	9687.0	9346.0	8847.3	8082.7	7409.9	7407.6	8113.3	8336.7	9447.2	10345.7
32.5°	10639.7	10672.7	10437.5	9931.7	8941.3	7960.4	7605.2	8132.2	8325.1	9350.7	10157.5
35°	11684.2	11726.6	11573.7	11166.7	10115.1	8767.3	7991.0	8242.7	8397.9	9317.8	10025.8
37.5°	13036.8	13093.3	12881.6	12411.1	11543.1	9861.1	8633.2	8520.3	8621.4	9411.9	9985.8
40°	15175.2	15149.3	14530.6	13829.6	13105.0	11260.7	9550.6	8990.7	9049.5	9715.3	10108.1
42.5°	17663.9	17600.4	16534.8	15433.9	14822.3	12954.4	10764.4	9807.0	9795.3	10312.8	10538.6
45°	19649.4	19597.6	18637.9	17280.5	16791.2	14883.4	12333.5	11023.2	10936.2	11260.7	11333.7
47.5°	20724.4	20726.7	20173.9	19066.0	19054.2	17334.6	14349.4	12782.8	12632.2	12785.1	12707.5
50°	20348.0	20397.3	20338.6	19985.7	21119.5	20547.9	16981.7	15236.2	14932.8	15083.4	14784.6
52.5°	18527.3	18590.8	18938.9	19480.0	21987.6	24431.6	20849.1	18284.9	17932.1	17878.0	17546.3
55°	15299.8	15377.4	16087.8	17558.0	21265.4	27040.5	26951.1	22171.0	21608.8	21098.4	20957.3
57.5°	10545.7	10675.0	11818.3	14001.3	18929.5	27828.6	34217.5	27710.9	26567.7	24784.6	24817.5
60°	5944.5	6094.9	7442.9	9426.0	14215.3	26972.2	39745.6	36101.8	33688.2	29101.1	29345.8
62.5°	3780.2	3942.6	4965.8	6549.0	8529.7	22361.6	42011.0	47767.2	44702.0	34422.2	34662.2
65°	3060.5	3131.0	3613.3	5405.8	6193.8	13472.1	40291.4	57376.6	56233.3	41175.8	40056.1
67.5°	2987.5	3011.1	3260.3	4537.7	5939.8	7572.3	32138.0	59173.8	60441.8	47482.5	42302.6
70°	2952.2	3034.6	3674.4	4330.7	5688.0	6386.7	19312.9	54248.0	56249.8	49131.5	39312.8
72.5°	1432.6	1427.9	1849.0	3916.7	6407.9	6624.2	9922.3	43892.9	45901.7	42566.1	32305.1
75°	1155.0	1056.2	1009.1	1435.0	6160.8	6840.7	6323.2	30202.0	31655.8	28538.9	19858.6
77.5°	1096.2	978.6	896.2	898.6	2604.0	7254.7	5356.4	16715.9	17139.3	12891.0	5441.1
80°	908.0	799.8	741.0	835.1	1260.9	6908.9	5791.5	7565.2	6941.8	3166.2	1811.3
82.5°	630.4	574.0	557.5	701.0	1009.1	4923.5	6734.8	4064.9	3408.6	1585.5	1117.4
85°	402.2	343.4	381.0	510.5	785.7	2272.4	6937.1	3168.6	2519.4	1006.8	630.4
87.5°	185.9	150.6	188.2	282.3	512.8	783.4	6600.8	3559.2	2594.6	531.6	397.5
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°	10289.2	10289.2	10289.2	10289.2	10289.2	10289.2	10289.2	10289.2	10289.2	10289.2	10289.2
2.5°	10294.0	10249.3	10214.0	10148.1	10075.1	10004.7	9941.1	9861.1	9837.6	9816.4	9849.4
5°	10326.9	10282.2	10152.8	9950.5	9727.0	9517.6	9308.3	9129.5	9018.9	8957.8	8993.1
7.5°	10376.3	10312.8	10044.7	9672.9	9270.7	8903.7	8525.0	8221.6	7998.0	7892.2	7922.8
10°	10421.0	10298.7	9861.1	9303.6	8715.5	8169.8	7572.3	7078.3	6711.3	6518.4	6565.5
12.5°	10439.8	10244.5	9604.7	8842.6	8035.7	7235.8	6356.1	5617.4	5090.5	4897.6	4857.7
15°	10458.6	10183.4	9322.5	8318.0	7214.7	6083.2	4850.6	3966.1	3528.6	3432.1	3410.9
17.5°	10463.4	10077.5	9002.5	7748.8	6252.6	4711.8	3316.8	2754.6	2757.0	2912.2	2931.1
20°	10413.9	9920.0	8614.4	7040.7	5099.9	3258.0	2277.1	2180.6	2535.9	2924.0	2971.1
22.5°	10301.0	9710.6	8174.5	6214.9	3780.2	2145.3	1761.9	1867.8	2326.5	2801.7	2855.8
25°	10157.5	9456.6	7654.6	5257.6	2503.0	1533.7	1477.2	1606.6	1917.2	2234.7	2265.3
27.5°	9962.3	9155.4	7071.2	4161.4	1625.5	1263.2	1300.9	1387.9	1514.9	1656.1	1670.2
30°	9710.6	8795.5	6447.9	3034.6	1228.0	1136.2	1190.3	1237.4	1291.5	1371.5	1378.5
32.5°	9421.3	8449.7	5808.0	2095.9	1089.1	1070.3	1112.7	1136.2	1178.5	1228.0	1232.7
35°	9178.9	8120.4	5144.6	1481.9	1030.3	1020.9	1049.1	1058.5	1098.5	1152.7	1157.4
37.5°	9040.1	7852.2	4460.1	1195.0	990.3	976.2	992.7	992.7	1049.1	1129.1	1140.9
40°	9049.5	7704.0	3775.5	1079.7	957.4	938.6	940.9	940.9	1013.8	1100.9	1108.0
42.5°	9306.0	7741.7	3168.6	1035.0	931.5	910.3	898.6	905.6	966.8	1023.3	1028.0
45°	9908.2	8007.5	2599.3	1006.8	905.6	898.6	872.7	870.3	893.9	919.7	919.7
47.5°	10896.2	8532.0	2213.6	988.0	884.4	882.1	851.6	821.0	818.7	828.1	828.1
50°	12502.8	9435.4	1954.9	966.8	870.3	851.6	816.3	769.3	752.8	759.8	759.8
52.5°	14911.7	11046.7	1856.0	938.6	839.8	809.3	769.3	722.2	708.1	710.4	710.4
55°	18070.9	13521.4	1841.9	905.6	806.9	757.5	724.6	689.3	672.8	677.5	677.5
57.5°	21931.1	16944.1	2093.6	854.0	762.2	705.7	686.9	663.4	651.6	658.7	656.3
60°	26624.1	21423.0	3105.2	799.8	717.5	658.7	658.7	639.9	630.4	637.5	635.2
62.5°	32029.8	26567.7	4366.0	759.8	670.4	621.0	630.4	621.0	611.6	616.3	614.0
65°	36824.0	29919.8	4088.4	729.3	623.4	585.7	602.2	597.5	590.4	595.2	592.8
67.5°	36962.8	28677.7	2295.9	696.3	578.7	550.4	574.0	571.6	566.9	571.6	569.3
70°	32987.3	24215.3	1293.8	635.2	531.6	508.1	541.0	538.7	534.0	543.4	541.0
72.5°	26428.9	17572.1	945.6	559.9	484.6	463.4	501.0	498.7	498.7	512.8	505.7
75°	15208.1	9042.5	755.1	479.9	435.2	418.7	451.6	454.0	458.7	477.5	463.4
77.5°	4335.4	2818.1	616.3	406.9	374.0	366.9	399.9	404.6	406.9	428.1	409.3
80°	1611.4	1298.5	508.1	341.1	305.8	308.1	338.7	345.8	348.1	369.3	345.8
82.5°	1028.0	856.3	411.6	263.5	240.0	237.6	275.3	284.7	284.7	287.0	272.9
85°	599.9	512.8	310.5	190.6	169.4	162.3	204.7	221.2	214.1	209.4	200.0
87.5°	402.2	352.8	190.6	105.9	91.8	87.1	120.0	131.8	127.1	120.0	112.9
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)