

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: P192066

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-SL4-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49727 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 511
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

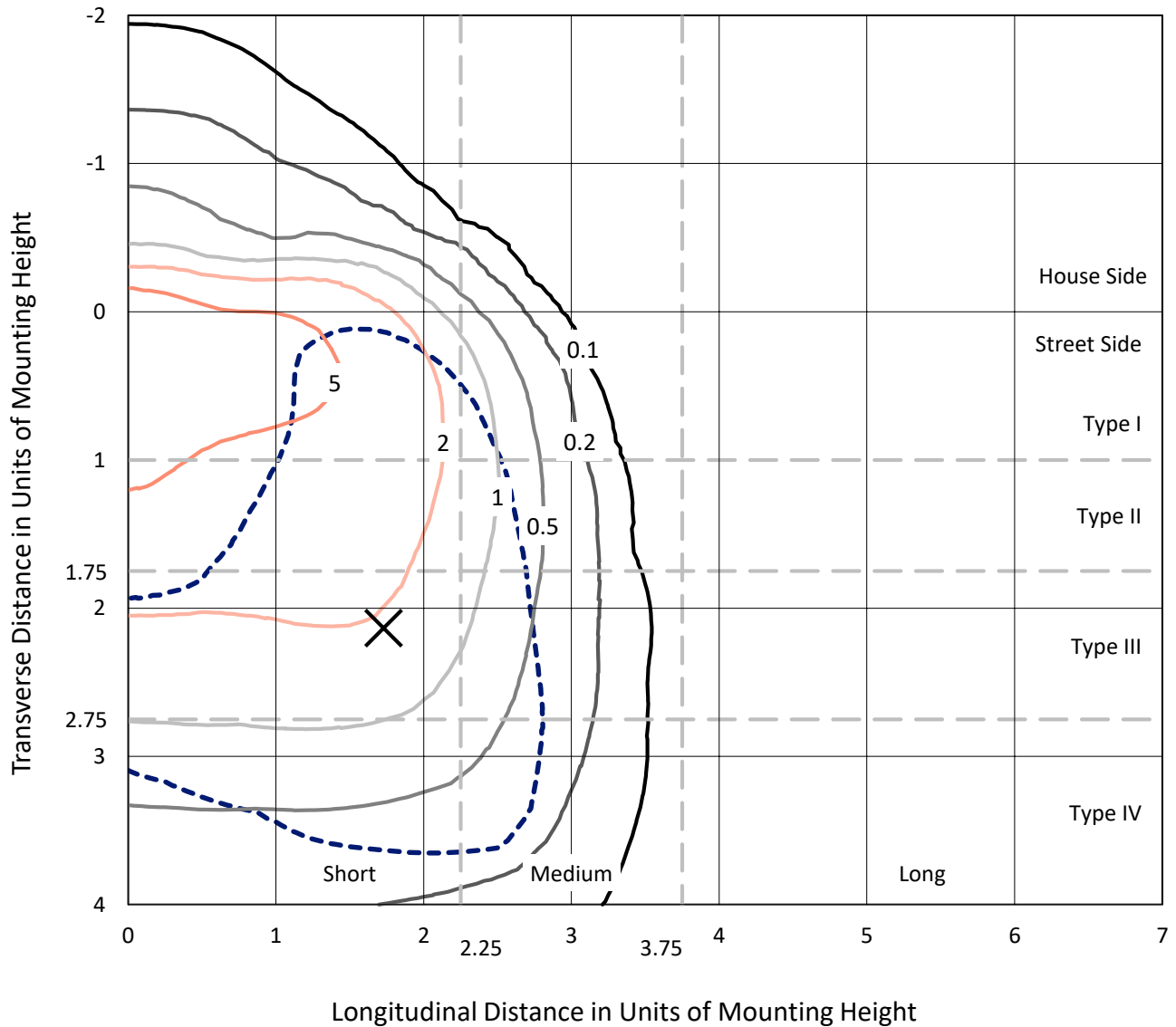


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

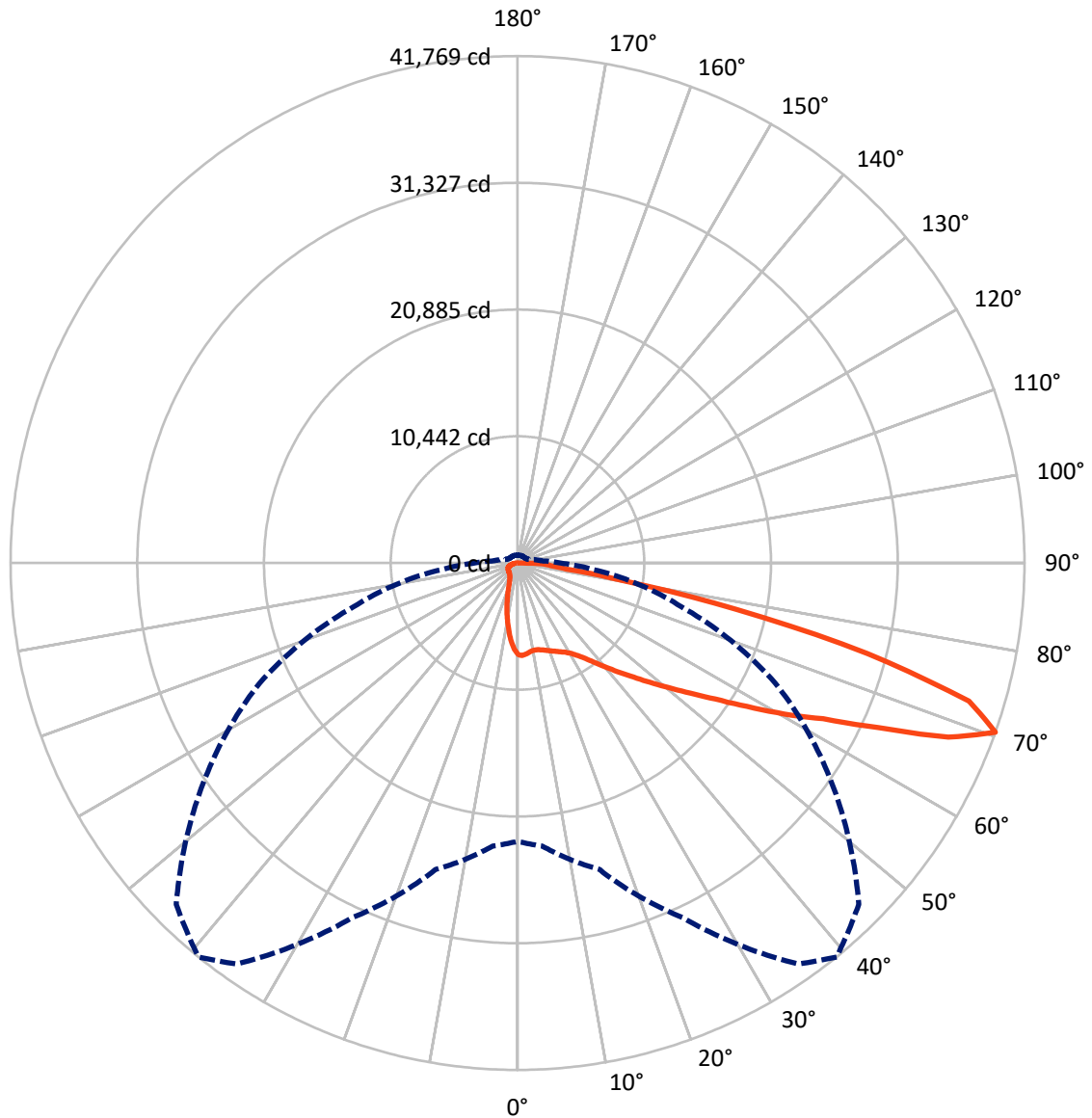


Based on 30 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5655.6	0.0	5655.6
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	44071.4	0.0	44071.4
	% Fixture	88.6	0.0	88.6
Total	Lumens	49727.0	0.0	49727.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	647.9	1.3
10°-20°	1619.4	3.3
20°-30°	2521.5	5.1
30°-40°	3928.1	7.9
40°-50°	6594.6	13.3
50°-60°	10476.0	21.1
60°-70°	13973.8	28.1
70°-80°	8438.4	17.0
80°-90°	1527.2	3.1
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°	49727.0	100.0
0°-180°	49727.0	100.0

Coefficient of Utilization



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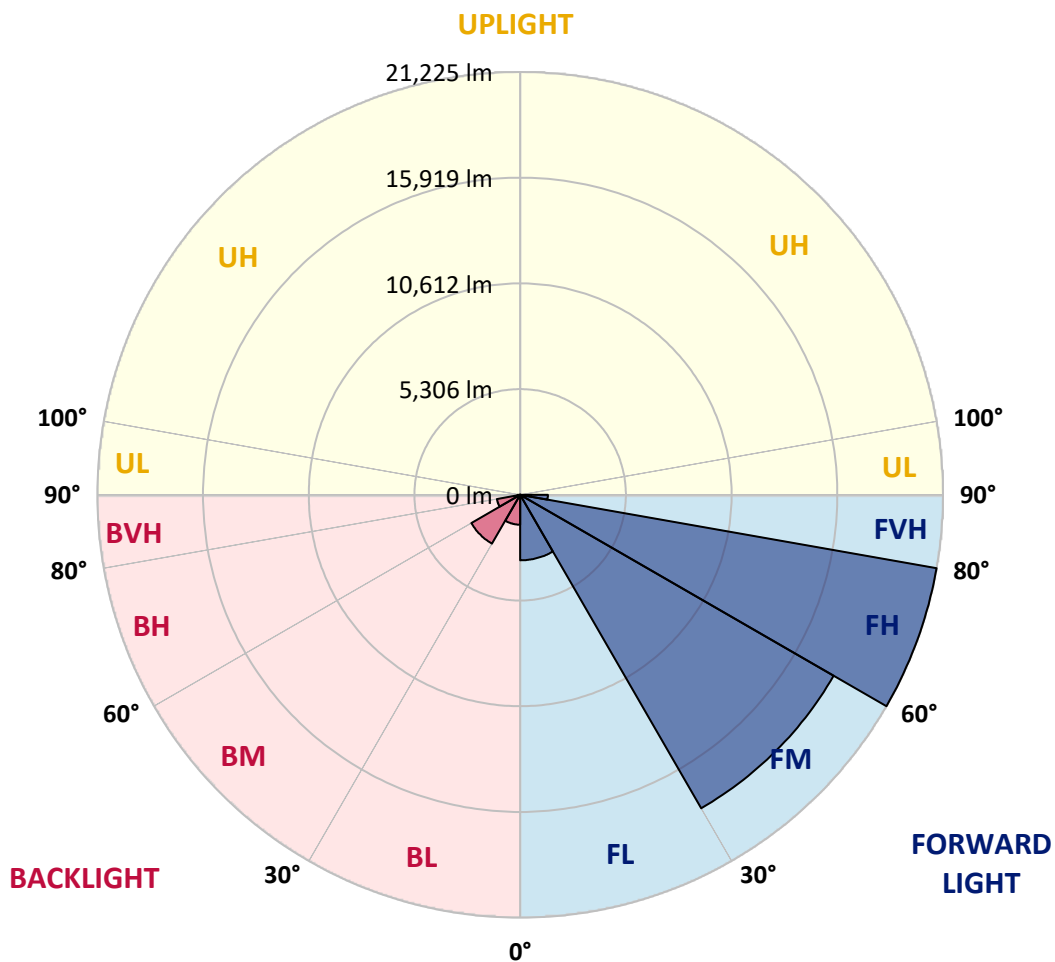
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3288.5	6.6			
FM	(30°-60°)	18168.3	36.5			
FH	(60°-80°)	21224.9	42.7			G5
FVH	(80°-90°)	1389.6	2.8			G5
BL	(0°-30°)	1500.3	3.0	B3/2500		
BM	(30°-60°)	2830.3	5.7	B3/5000		
BH	(60°-80°)	1187.3	2.4	B3/2500		G3/2500
BVH	(80°-90°)	137.6	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	7549.3	7549.3	7549.3	7549.3	7549.3	7549.3	7549.3	7549.3	7549.3	7549.3	7549.3
2.5°	7696.0	7693.4	7673.2	7658.0	7645.4	7640.3	7650.5	7612.5	7579.7	7539.2	7496.2
5°	7637.8	7635.3	7602.4	7572.1	7541.7	7531.6	7529.1	7460.8	7420.4	7359.7	7278.8
7.5°	7574.6	7562.0	7519.0	7468.4	7415.3	7390.1	7364.8	7276.3	7230.8	7170.1	7076.5
10°	7508.9	7493.7	7453.3	7402.7	7352.1	7314.2	7271.2	7185.3	7137.2	7091.7	6983.0
12.5°	7440.6	7428.0	7417.9	7395.1	7359.7	7326.8	7294.0	7220.7	7170.1	7117.0	6990.6
15°	7430.5	7425.4	7448.2	7463.4	7443.1	7422.9	7387.5	7324.3	7271.2	7218.1	7053.8
17.5°	7511.4	7508.9	7567.0	7607.5	7597.4	7562.0	7513.9	7443.1	7400.2	7354.7	7149.9
20°	7688.4	7701.0	7771.8	7824.9	7774.3	7723.8	7645.4	7546.8	7524.0	7503.8	7248.5
22.5°	8022.1	8034.8	8085.3	8105.5	7974.1	7900.8	7792.0	7665.6	7650.5	7665.6	7367.3
25°	8542.9	8530.3	8522.7	8446.9	8206.7	8092.9	7953.8	7822.4	7830.0	7898.2	7534.2
27.5°	9233.1	9164.9	9058.7	8831.1	8449.4	8323.0	8153.6	8032.2	8080.3	8211.7	7784.5
30°	9948.6	9872.8	9627.5	9255.9	8767.9	8628.9	8439.3	8302.7	8429.2	8636.5	8118.2
32.5°	10611.0	10600.9	10241.9	9764.1	9207.9	9086.5	8896.9	8742.7	8947.4	9263.5	8618.8
35°	11334.1	11356.9	10927.1	10353.1	9802.0	9675.6	9539.1	9422.8	9695.8	10130.7	9344.4
37.5°	12107.7	12153.3	11645.1	10997.9	10479.6	10426.5	10345.6	10295.0	10717.2	11318.9	10358.2
40°	13141.8	13096.3	12390.9	11726.0	11311.4	11308.8	11283.5	11344.2	12047.1	12871.3	11660.3
42.5°	14249.2	14115.2	13182.3	12507.2	12224.0	12310.0	12360.6	12608.3	13647.4	14757.3	13248.0
45°	15442.5	15141.6	14003.9	13333.9	13237.9	13419.9	13591.8	14130.3	15531.0	16903.8	14987.4
47.5°	16395.6	16104.9	14853.4	14201.1	14411.0	14686.6	15017.8	15869.8	17639.5	19121.1	16704.1
50°	17146.5	16956.9	15710.5	15212.4	15702.9	16127.7	16668.7	17839.3	19834.1	21280.2	18294.4
52.5°	17874.7	17733.1	16575.2	16249.0	17219.9	17806.4	18542.1	19952.9	22084.2	23403.9	19631.8
55°	18532.0	18430.9	17505.5	17540.9	19004.8	19768.3	20693.7	22359.8	24536.6	25297.6	20764.4
57.5°	19272.8	19143.8	18567.4	19161.5	21297.9	22289.0	23492.4	25065.0	26837.3	26981.4	21626.6
60°	20018.6	19907.4	19745.6	21032.4	24210.4	25252.1	26392.3	27686.8	29170.9	28288.5	21576.0
62.5°	20665.8	20678.5	20964.2	22996.9	27062.3	28268.3	29658.8	30938.1	31281.9	28516.0	19980.7
65°	21763.1	21962.8	22814.9	25778.0	31077.1	32690.2	34396.7	34191.9	31866.0	26389.8	16560.0
67.5°	23067.7	23419.1	25145.9	29484.4	36151.3	38292.7	38952.6	34927.7	29527.3	21452.1	11804.4
70°	22936.2	23419.1	26152.1	32247.7	40333.0	41769.1	39766.7	31610.6	23446.9	14014.0	6270.0
72.5°	20367.5	21057.7	24101.7	30981.1	39015.8	38889.4	34523.1	23565.7	13930.6	5627.9	2449.9
75°	15523.4	16221.2	18840.5	24475.9	30837.0	29775.1	24496.1	13017.9	5286.6	2235.0	1544.8
77.5°	8929.7	9470.8	11493.4	15010.2	19563.5	18473.9	13634.8	5789.7	2573.7	1557.4	1206.0
80°	4985.7	5286.6	6515.3	7615.1	9587.1	8788.2	6100.6	3597.7	1921.5	1130.1	930.4
82.5°	3941.5	4209.5	5268.9	4803.7	4378.9	4040.1	3504.1	3203.3	1534.6	713.0	556.2
85°	3443.5	3698.8	4459.8	3782.2	2990.9	2743.1	2846.8	3152.7	1193.3	429.8	475.3
87.5°	3190.6	3532.0	3974.4	2915.1	2328.5	2063.0	2626.8	3456.1	384.3	268.0	192.1
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°	7549.3	7549.3	7549.3	7549.3	7549.3	7549.3	7549.3	7549.3	7549.3	7549.3	7549.3
2.5°	7458.3	7417.9	7352.1	7294.0	7203.0	7154.9	7101.8	7063.9	7033.6	7008.3	7048.7
5°	7228.2	7152.4	7013.3	6864.2	6687.2	6548.1	6431.8	6323.1	6247.3	6196.7	6232.1
7.5°	7010.8	6886.9	6669.5	6399.0	6095.6	5837.7	5625.3	5438.2	5309.3	5225.9	5258.7
10°	6886.9	6732.7	6396.5	5971.7	5524.2	5122.2	4788.5	4500.3	4300.5	4186.8	4204.5
12.5°	6856.6	6656.9	6191.7	5607.6	4995.8	4437.1	3966.8	3567.3	3286.7	3140.1	3145.1
15°	6879.3	6624.0	5999.5	5258.7	4485.1	3779.7	3193.2	2707.7	2381.6	2214.7	2212.2
17.5°	6917.3	6598.7	5797.3	4882.0	3966.8	3147.7	2492.8	2017.5	1729.3	1595.3	1585.2
20°	6957.7	6558.3	5569.7	4475.0	3428.3	2561.1	1951.8	1580.2	1398.1	1324.8	1319.7
22.5°	7015.9	6522.9	5334.6	4045.2	2899.9	2085.8	1605.4	1355.1	1259.1	1221.1	1216.1
25°	7109.4	6505.2	5084.3	3597.7	2424.6	1744.5	1398.1	1243.9	1188.3	1163.0	1160.5
27.5°	7266.2	6530.4	4849.2	3162.8	2037.8	1514.4	1281.8	1188.3	1147.8	1125.1	1122.5
30°	7468.4	6608.8	4601.4	2750.7	1736.9	1357.7	1211.0	1150.3	1117.5	1094.7	1094.7
32.5°	7804.7	6740.3	4341.0	2394.2	1522.0	1249.0	1157.9	1117.5	1089.7	1072.0	1069.4
35°	8300.2	6988.1	4098.3	2098.4	1367.8	1170.6	1112.4	1082.1	1061.9	1051.7	1051.7
37.5°	9020.8	7379.9	3883.4	1886.1	1274.2	1117.5	1069.4	1046.7	1034.1	1034.1	1034.1
40°	9989.1	7921.0	3708.9	1744.5	1221.1	1079.6	1036.6	1018.9	1011.3	1013.8	1013.8
42.5°	11184.9	8623.8	3592.6	1645.9	1195.9	1056.8	1013.8	998.7	991.1	988.5	991.1
45°	12547.7	9422.8	3580.0	1572.6	1170.6	1041.6	998.7	983.5	968.3	958.2	958.2
47.5°	13872.5	10234.3	3683.6	1547.3	1142.8	1023.9	986.0	970.8	948.1	925.3	925.3
50°	15043.0	10924.5	3822.7	1557.4	1132.7	998.7	965.8	958.2	922.8	897.5	895.0
52.5°	15973.4	11455.5	3936.5	1587.7	1142.8	981.0	940.5	943.0	905.1	877.3	874.8
55°	16719.3	11804.4	3906.1	1618.1	1165.5	970.8	917.8	922.8	892.5	864.7	864.7
57.5°	17045.4	11675.4	3569.9	1592.8	1183.2	973.4	900.1	920.3	895.0	869.7	869.7
60°	16345.1	10530.1	2940.3	1481.5	1160.5	965.8	892.5	930.4	927.9	902.6	900.1
62.5°	14226.4	8479.7	2280.5	1317.2	1082.1	927.9	872.2	927.9	955.7	948.1	945.6
65°	10965.0	6040.0	1742.0	1140.2	975.9	864.7	819.2	869.7	907.6	917.8	915.2
67.5°	7117.0	3701.3	1342.5	973.4	857.1	791.3	750.9	773.6	781.2	781.2	776.2
70°	3499.1	1992.3	1069.4	819.2	735.7	713.0	690.2	677.6	664.9	654.8	654.8
72.5°	1726.8	1302.0	879.8	692.7	634.6	624.5	619.4	604.2	594.1	581.5	576.4
75°	1276.8	1059.3	748.4	584.0	546.1	536.0	546.1	533.5	530.9	520.8	515.8
77.5°	1049.2	902.6	644.7	500.6	467.7	450.0	465.2	467.7	470.3	455.1	450.0
80°	852.0	763.5	538.5	414.6	384.3	371.7	381.8	402.0	407.0	384.3	374.2
82.5°	614.4	624.5	434.9	323.6	298.3	288.2	308.4	333.7	338.8	305.9	298.3
85°	515.8	520.8	333.7	230.1	204.8	189.6	222.5	247.8	265.5	232.6	225.0
87.5°	214.9	305.9	192.1	128.9	113.8	98.6	118.8	131.5	159.3	146.6	144.1
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)