

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: P192056

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192056  
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  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 1050mA 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: 45330 lumens  
Efficiency: N/A  
Efficacy: 101.9 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

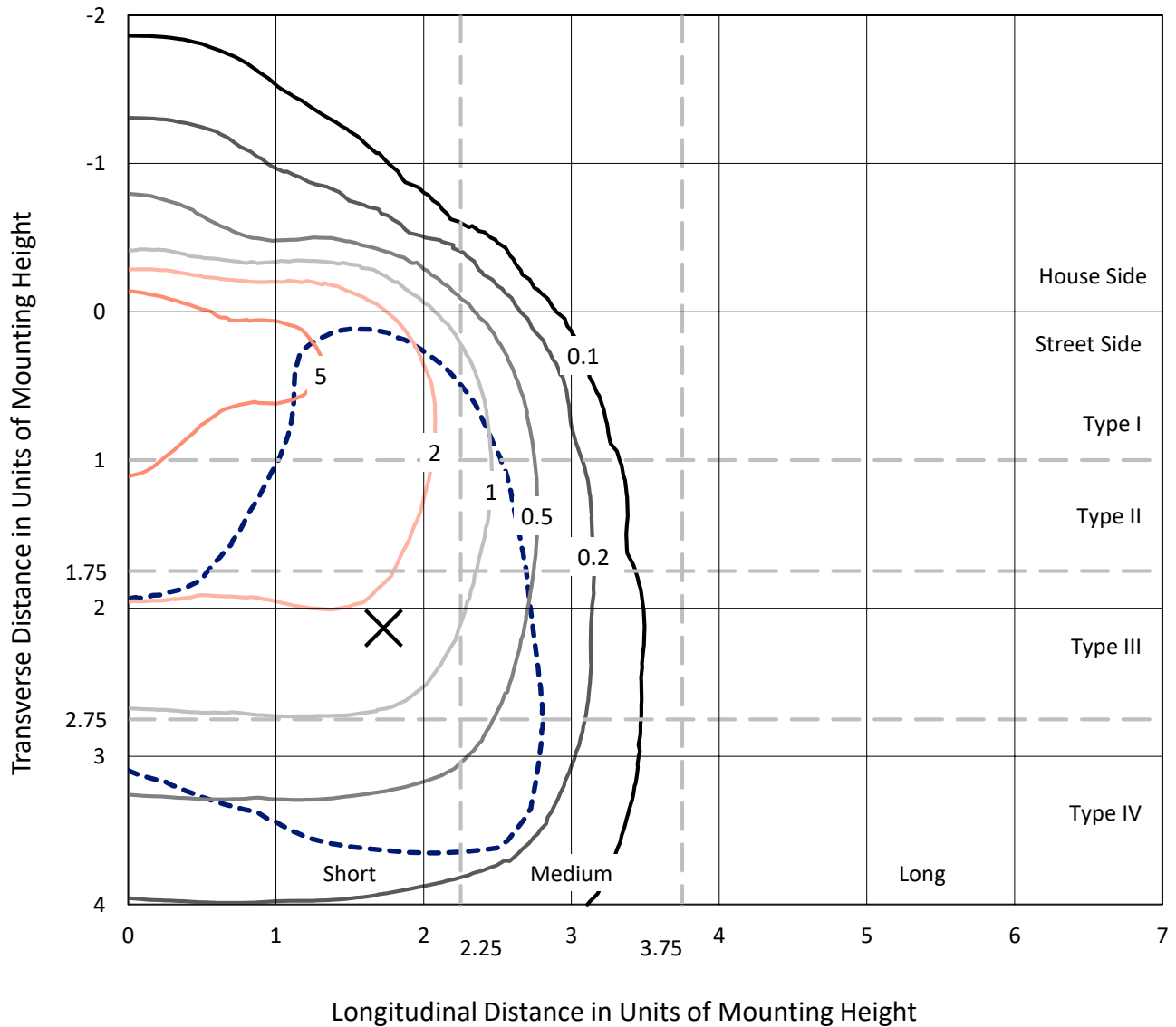
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

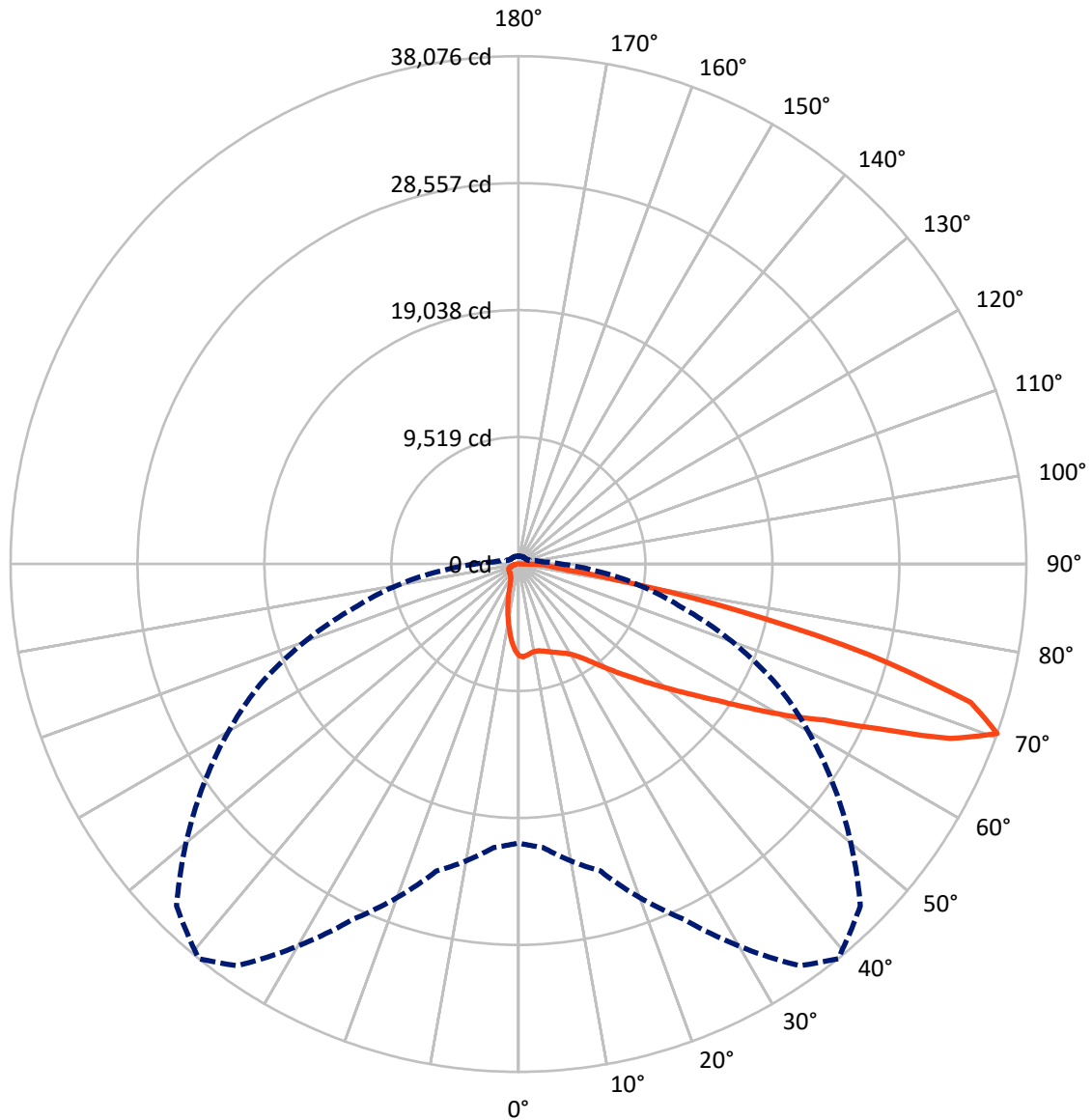
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 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
<b>House Side</b>	Lumens	5155.6	0.0	5155.6
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	40174.4	0.0	40174.4
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	45330.0	0.0	45330.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	590.6	1.3
10°-20°	1476.2	3.3
20°-30°	2298.6	5.1
30°-40°	3580.7	7.9
40°-50°	6011.5	13.3
50°-60°	9549.7	21.1
60°-70°	12738.2	28.1
70°-80°	7692.3	17.0
80°-90°	1392.2	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°	45330.0	100.0
0°-180°	45330.0	100.0



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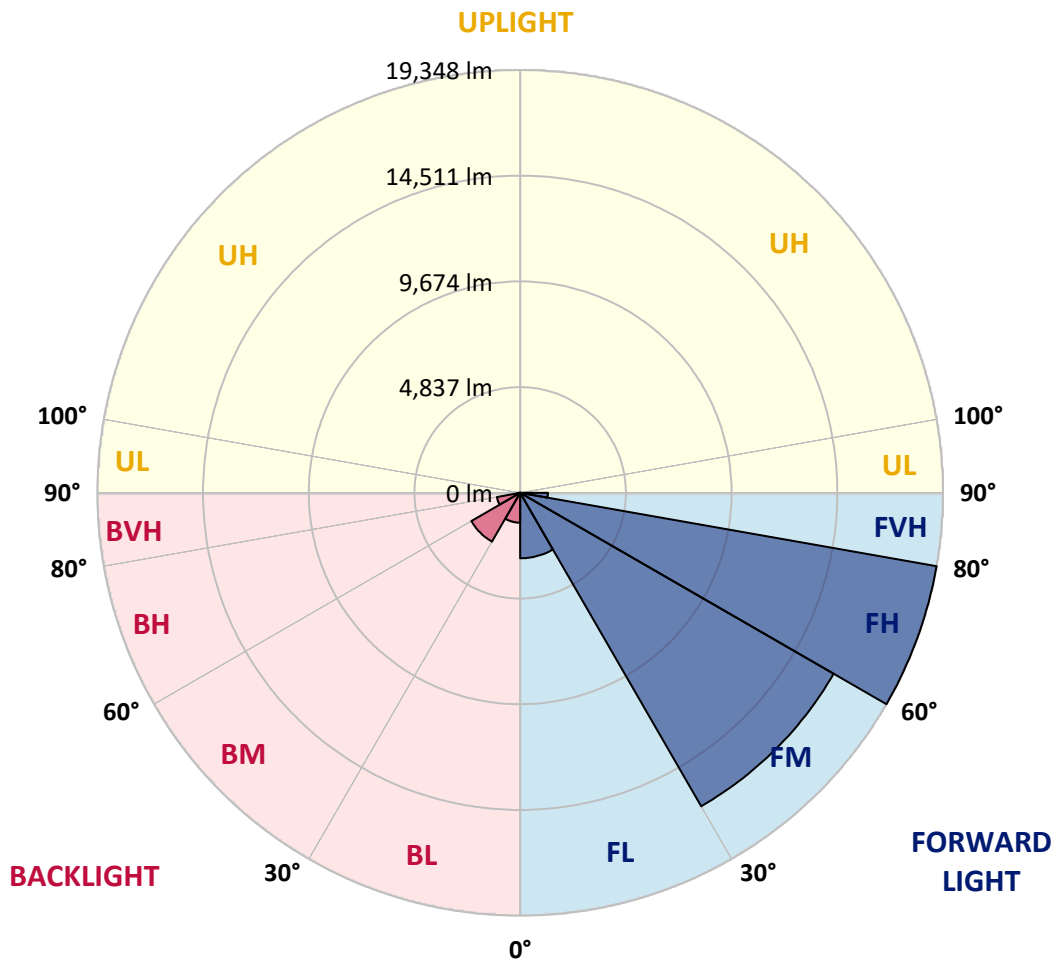
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2997.7	6.6			
FM	(30°-60°)	16561.8	36.5			
FH	(60°-80°)	19348.2	42.7			G5
FVH	(80°-90°)	1266.7	2.8			G5
BL	(0°-30°)	1367.7	3.0	B3/2500		
BM	(30°-60°)	2580.0	5.7	B3/5000		
BH	(60°-80°)	1082.4	2.4	B3/2500		G3/2500
BVH	(80°-90°)	125.5	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°	6881.8	6881.8	6881.8	6881.8	6881.8	6881.8	6881.8	6881.8	6881.8	6881.8	6881.8
2.5°	7015.5	7013.2	6994.7	6980.9	6969.4	6964.8	6974.0	6939.4	6909.5	6872.6	6833.4
5°	6962.5	6960.2	6930.2	6902.5	6874.9	6865.7	6863.4	6801.1	6764.3	6708.9	6635.2
7.5°	6904.8	6893.3	6854.1	6808.0	6759.6	6736.6	6713.6	6632.9	6591.4	6536.1	6450.8
10°	6844.9	6831.1	6794.2	6748.1	6702.0	6667.5	6628.3	6549.9	6506.1	6464.6	6365.5
12.5°	6782.7	6771.2	6762.0	6741.2	6708.9	6679.0	6649.0	6582.2	6536.1	6487.7	6372.5
15°	6773.5	6768.9	6789.6	6803.4	6785.0	6766.6	6734.3	6676.7	6628.3	6579.9	6430.1
17.5°	6847.2	6844.9	6897.9	6934.8	6925.6	6893.3	6849.5	6785.0	6745.8	6704.3	6517.7
20°	7008.6	7020.1	7084.6	7133.0	7086.9	7040.8	6969.4	6879.5	6858.7	6840.3	6607.5
22.5°	7312.8	7324.3	7370.4	7388.8	7269.0	7202.1	7103.0	6987.8	6974.0	6987.8	6715.9
25°	7787.5	7776.0	7769.1	7700.0	7481.0	7377.3	7250.5	7130.7	7137.6	7199.8	6868.0
27.5°	8416.7	8354.5	8257.7	8050.3	7702.3	7587.0	7432.6	7322.0	7365.8	7485.6	7096.1
30°	9068.9	8999.8	8776.2	8437.5	7992.7	7865.9	7693.0	7568.6	7683.8	7872.8	7400.4
32.5°	9672.8	9663.6	9336.3	8900.7	8393.7	8283.0	8110.2	7969.6	8156.3	8444.4	7856.7
35°	10331.9	10352.7	9960.9	9437.7	8935.3	8820.0	8695.6	8589.6	8838.5	9234.9	8518.1
37.5°	11037.1	11078.6	10615.4	10025.4	9552.9	9504.5	9430.8	9384.7	9769.6	10318.1	9442.3
40°	11979.8	11938.3	11295.3	10689.1	10311.2	10308.9	10285.8	10341.1	10981.8	11733.2	10629.2
42.5°	12989.2	12867.1	12016.6	11401.3	11143.2	11221.5	11267.6	11493.5	12440.7	13452.5	12076.6
45°	14077.0	13802.8	12765.7	12154.9	12067.3	12233.3	12390.0	12880.9	14157.7	15409.1	13662.2
47.5°	14945.9	14680.9	13540.0	12945.4	13136.7	13387.9	13689.8	14466.5	16079.8	17430.4	15227.1
50°	15630.4	15457.5	14321.3	13867.3	14314.4	14701.6	15194.8	16261.9	18080.3	19398.6	16676.7
52.5°	16294.1	16165.1	15109.5	14812.2	15697.2	16231.9	16902.6	18188.6	20131.4	21334.5	17895.9
55°	16893.4	16801.2	15957.7	15989.9	17324.3	18020.4	18863.9	20382.7	22367.0	23060.7	18928.4
57.5°	17568.6	17451.1	16925.6	17467.2	19414.7	20318.1	21415.2	22848.7	24464.3	24595.6	19714.3
60°	18248.5	18147.1	17999.6	19172.7	22069.7	23019.2	24058.6	25238.6	26591.5	25787.1	19668.2
62.5°	18838.5	18850.0	19110.5	20963.4	24669.4	25768.7	27036.3	28202.5	28515.9	25994.6	18213.9
65°	19838.7	20020.8	20797.5	23498.6	28329.2	29799.6	31355.3	31168.6	29048.3	24056.3	15095.7
67.5°	21028.0	21348.3	22922.4	26877.3	32954.7	34906.8	35508.3	31839.3	26916.4	19555.3	10760.6
70°	20908.1	21348.3	23839.7	29396.3	36766.7	38075.7	36250.4	28815.5	21373.7	12774.9	5715.6
72.5°	18566.6	19195.7	21970.6	28241.6	35565.9	35450.7	31470.5	21482.0	12698.8	5130.2	2233.2
75°	14150.8	14786.9	17174.5	22311.7	28110.3	27142.3	22330.1	11866.8	4819.1	2037.3	1408.2
77.5°	8140.2	8633.4	10477.1	13682.9	17833.7	16840.4	12429.2	5277.7	2346.2	1419.7	1099.3
80°	4544.8	4819.1	5939.2	6941.7	8739.4	8011.1	5561.2	3279.6	1751.6	1030.2	848.1
82.5°	3593.0	3837.3	4803.0	4378.9	3991.7	3682.9	3194.3	2920.0	1398.9	649.9	507.0
85°	3139.0	3371.8	4065.5	3447.8	2726.4	2500.6	2595.1	2873.9	1087.8	391.8	433.3
87.5°	2908.5	3219.6	3623.0	2657.3	2122.6	1880.6	2394.6	3150.5	350.3	244.3	175.2
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°	6881.8	6881.8	6881.8	6881.8	6881.8	6881.8	6881.8	6881.8	6881.8	6881.8	6881.8
2.5°	6798.8	6762.0	6702.0	6649.0	6566.1	6522.3	6473.9	6439.3	6411.6	6388.6	6425.5
5°	6589.1	6520.0	6393.2	6257.2	6095.9	5969.1	5863.1	5764.0	5694.9	5648.8	5681.1
7.5°	6390.9	6278.0	6079.8	5833.2	5556.6	5321.5	5127.9	4957.4	4839.8	4763.8	4793.7
10°	6278.0	6137.4	5830.9	5443.7	5035.7	4669.3	4365.1	4102.3	3920.3	3816.6	3832.7
12.5°	6250.3	6068.2	5644.2	5111.8	4554.1	4044.7	3616.1	3251.9	2996.1	2862.4	2867.0
15°	6271.1	6038.3	5469.0	4793.7	4088.5	3445.5	2910.8	2468.3	2171.0	2018.9	2016.6
17.5°	6305.6	6015.2	5284.6	4450.4	3616.1	2869.3	2272.4	1839.1	1576.4	1454.3	1445.0
20°	6342.5	5978.4	5077.2	4079.3	3125.2	2334.6	1779.2	1440.4	1274.5	1207.7	1203.0
22.5°	6395.5	5946.1	4862.9	3687.5	2643.5	1901.4	1463.5	1235.3	1147.7	1113.2	1108.6
25°	6480.8	5930.0	4634.7	3279.6	2210.2	1590.2	1274.5	1133.9	1083.2	1060.2	1057.9
27.5°	6623.7	5953.0	4420.4	2883.2	1857.6	1380.5	1168.5	1083.2	1046.3	1025.6	1023.3
30°	6808.0	6024.5	4194.5	2507.5	1583.3	1237.6	1103.9	1048.6	1018.7	997.9	997.9
32.5°	7114.6	6144.3	3957.1	2182.5	1387.4	1138.5	1055.5	1018.7	993.3	977.2	974.9
35°	7566.3	6370.2	3735.9	1912.9	1246.8	1067.1	1014.1	986.4	968.0	958.7	958.7
37.5°	8223.1	6727.4	3540.0	1719.3	1161.6	1018.7	974.9	954.1	942.6	942.6	942.6
40°	9105.8	7220.6	3381.0	1590.2	1113.2	984.1	944.9	928.8	921.9	924.2	924.2
42.5°	10195.9	7861.3	3275.0	1500.4	1090.1	963.4	924.2	910.4	903.4	901.1	903.4
45°	11438.2	8589.6	3263.4	1433.5	1067.1	949.5	910.4	896.5	882.7	873.5	873.5
47.5°	12645.8	9329.4	3357.9	1410.5	1041.7	933.4	898.8	885.0	864.3	843.5	843.5
50°	13712.9	9958.6	3484.7	1419.7	1032.5	910.4	880.4	873.5	841.2	818.2	815.9
52.5°	14561.0	10442.5	3588.4	1447.3	1041.7	894.2	857.3	859.6	825.1	799.7	797.4
55°	15240.9	10760.6	3560.7	1475.0	1062.5	885.0	836.6	841.2	813.6	788.2	788.2
57.5°	15538.2	10643.0	3254.2	1452.0	1078.6	887.3	820.5	838.9	815.9	792.8	792.8
60°	14899.8	9599.0	2680.4	1350.5	1057.9	880.4	813.6	848.1	845.8	822.8	820.5
62.5°	12968.5	7729.9	2078.8	1200.7	986.4	845.8	795.1	845.8	871.2	864.3	862.0
65°	9995.4	5505.9	1587.9	1039.4	889.6	788.2	746.7	792.8	827.4	836.6	834.3
67.5°	6487.7	3374.1	1223.8	887.3	781.3	721.4	684.5	705.2	712.1	712.1	707.5
70°	3189.7	1816.1	974.9	746.7	670.7	649.9	629.2	617.7	606.1	596.9	596.9
72.5°	1574.1	1186.9	802.0	631.5	578.5	569.3	564.6	550.8	541.6	530.1	525.5
75°	1163.9	965.7	682.2	532.4	497.8	488.6	497.8	486.3	484.0	474.8	470.2
77.5°	956.4	822.8	587.7	456.3	426.4	410.2	424.1	426.4	428.7	414.8	410.2
80°	776.7	696.0	490.9	378.0	350.3	338.8	348.0	366.4	371.1	350.3	341.1
82.5°	560.0	569.3	396.4	295.0	272.0	262.7	281.2	304.2	308.8	278.9	272.0
85°	470.2	474.8	304.2	209.7	186.7	172.9	202.8	225.9	242.0	212.0	205.1
87.5°	195.9	278.9	175.2	117.5	103.7	89.9	108.3	119.8	145.2	133.7	131.4
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)