

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: P300386

Luminaire Tested: **GLNA-AF-06-LED-E1-AFL-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300386  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-06-LED-E1-AFL-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28444.4 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

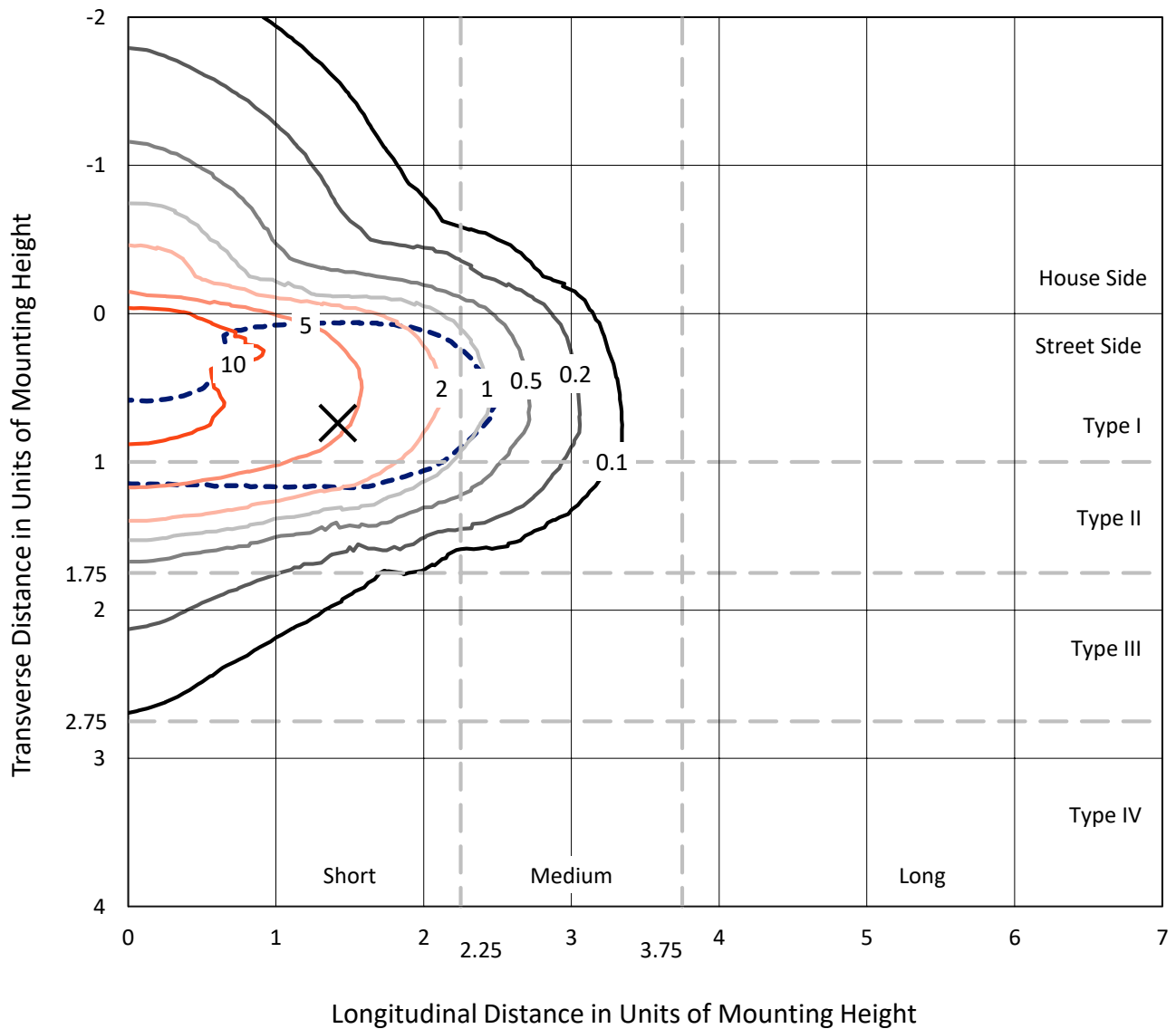
Input Watts (W): 249  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

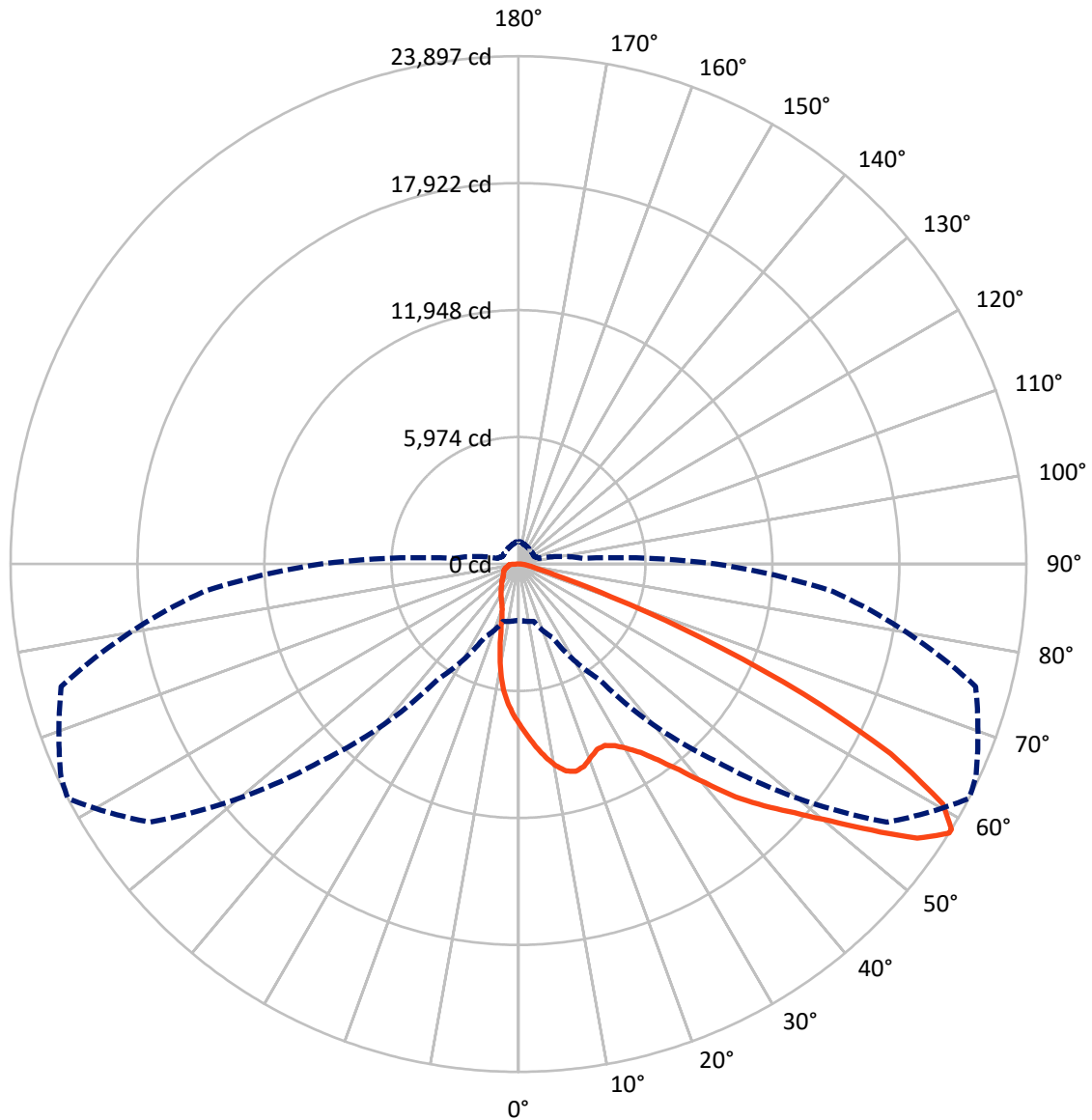
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral    - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4337.9	0.0	4337.9
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	24106.5	0.0	24106.5
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	28444.4	0.0	28444.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	675.7	2.4
10°-20°	1727.3	6.1
20°-30°	2792.2	9.8
30°-40°	4432.7	15.6
40°-50°	6485.9	22.8
50°-60°	6783.7	23.8
60°-70°	4007.8	14.1
70°-80°	1129.0	4.0
80°-90°	409.9	1.4
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°	28444.4	100.0
0°-180°	28444.4	100.0

**Coefficient of Utilization**



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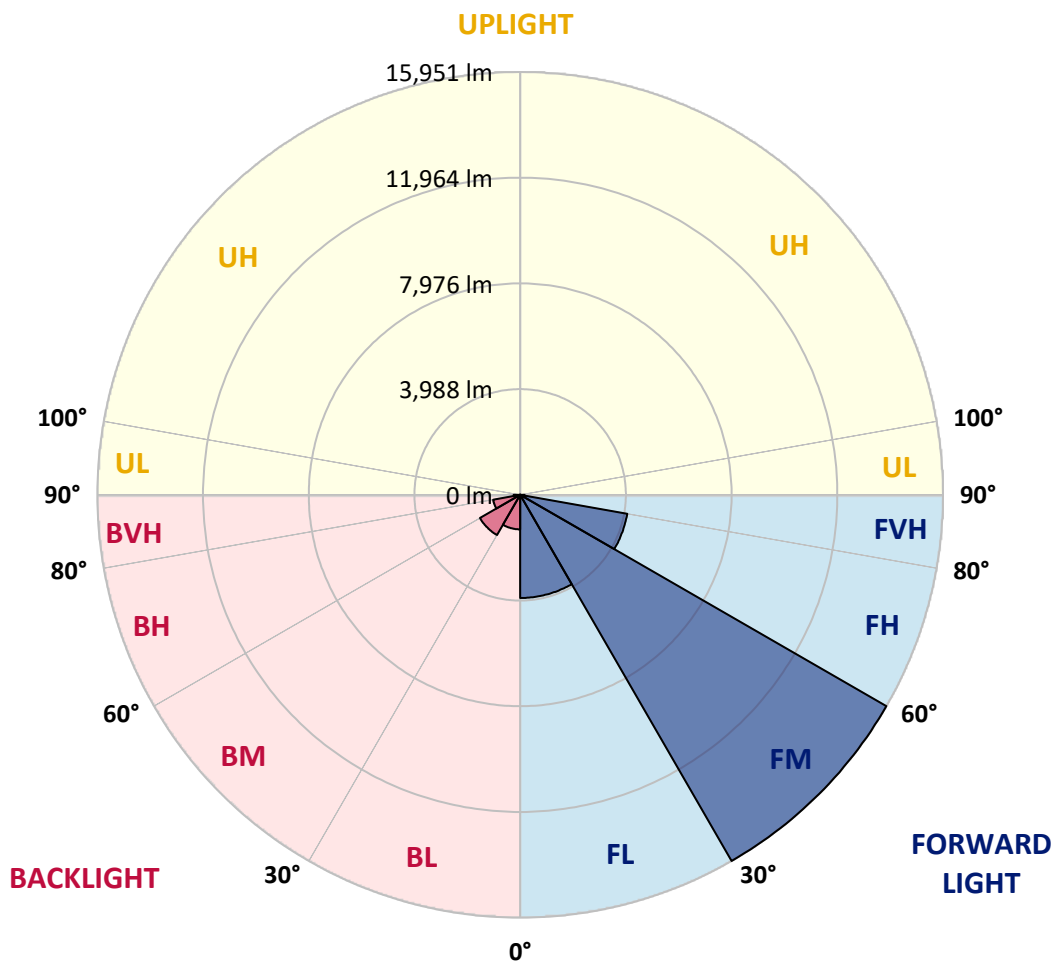
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3891.5	13.7			
FM	(30°-60°)	15951.5	56.1			
FH	(60°-80°)	4101.8	14.4			G2/5000
FVH	(80°-90°)	161.7	0.6			G2/225
BL	(0°-30°)	1303.8	4.6	B3/2500		
BM	(30°-60°)	1750.9	6.2	B2/2500		
BH	(60°-80°)	1035.1	3.6	B3/2500		G3/2500
BVH	(80°-90°)	248.2	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	7555.7	7555.7	7555.7	7555.7	7555.7	7555.7	7555.7	7555.7	7555.7	7555.7	7555.7
2.5°	8633.9	8564.3	8520.1	8481.2	8430.3	8321.8	8175.8	8083.4	8036.5	7877.1	7688.3
5°	9480.4	9418.8	9373.3	9321.0	9230.0	9059.9	8824.1	8636.6	8544.2	8225.4	7847.7
7.5°	9282.2	9307.6	9386.7	9524.6	9642.5	9619.7	9409.4	9171.0	9049.1	8605.8	8032.5
10°	8087.4	8131.6	8268.3	8591.1	9113.4	9649.2	9812.6	9647.9	9524.6	8982.2	8222.7
12.5°	7847.7	7846.3	7857.1	7942.8	8253.5	9007.6	9826.0	9992.1	9918.4	9341.1	8416.9
15°	7945.5	7948.1	7940.1	7976.3	8072.7	8371.4	9416.1	10124.7	10176.9	9702.8	8617.8
17.5°	8202.6	8195.9	8165.1	8165.1	8199.9	8316.5	8933.9	10001.5	10242.6	10022.9	8794.6
20°	8633.9	8603.1	8521.4	8446.4	8408.9	8471.8	8735.7	9717.5	10128.7	10302.8	8940.6
22.5°	9156.3	9132.2	8999.6	8838.8	8708.9	8707.6	8837.5	9469.7	9931.8	10566.7	9063.9
25°	9831.4	9792.5	9595.6	9338.5	9110.8	9023.7	9059.9	9457.7	9824.7	10853.3	9173.7
27.5°	10624.3	10553.3	10320.2	9949.2	9614.4	9438.9	9386.7	9676.0	9922.4	11208.3	9326.4
30°	11586.0	11504.3	11205.6	10722.1	10249.3	9961.3	9850.1	10063.1	10246.6	11640.9	9571.5
32.5°	12680.3	12562.4	12216.9	11683.8	11062.3	10623.0	10442.1	10574.7	10720.7	12162.0	9878.2
35°	14192.5	14051.9	13552.3	12816.9	12115.1	11511.0	11221.7	11318.1	11460.1	12938.8	10321.6
37.5°	15223.9	15160.9	14828.7	14137.6	13374.1	12679.0	12231.6	12287.9	12368.2	13909.9	10889.5
40°	15214.5	15239.9	15246.6	15253.3	14733.6	14068.0	13587.1	13528.2	13512.1	14976.1	11535.1
42.5°	14452.4	14556.8	14894.4	15578.8	15894.9	15589.5	15148.9	14978.8	14894.4	16232.5	12219.6
45°	13285.7	13342.0	13974.2	15310.9	16489.6	17096.4	16762.9	16227.1	16074.4	17387.0	12787.5
47.5°	12684.3	12745.9	13143.8	14601.0	16482.9	18313.9	18506.8	17486.2	17212.9	18391.6	13277.7
50°	11252.5	11381.1	11882.0	13366.1	15881.5	18873.8	20329.8	18986.3	18421.1	19369.4	13769.3
52.5°	8623.2	8821.4	9382.7	11335.5	14355.9	18596.5	21788.4	20805.2	20007.0	20382.0	14191.2
55°	5439.4	5586.7	6058.2	8005.7	11484.2	17154.0	22341.6	22772.9	22063.0	21341.0	14556.8
57.5°	2957.4	3023.1	3199.9	4420.1	7470.0	13964.8	21535.2	23892.6	23597.9	22155.4	14832.8
58°	2646.7	2690.9	2800.7	3830.7	6624.8	13092.9	21177.6	23896.6	23749.3	22274.6	14854.2
60°	1963.6	1940.8	1843.0	2185.9	3687.4	9045.1	19015.8	22940.3	23372.9	22420.6	14749.7
62.5°	1725.2	1670.3	1470.7	1447.9	1793.5	4166.9	14550.1	19650.7	20672.6	21587.5	14114.8
65°	1620.7	1561.8	1304.6	1221.6	1293.9	1762.7	8571.0	14737.7	16019.5	19061.3	12491.5
67.5°	1543.0	1466.7	1198.8	1084.9	1090.3	1165.3	3435.6	9282.2	10724.8	14472.5	9716.2
70°	1468.0	1385.0	1109.0	977.8	947.0	921.5	1366.2	4646.5	5955.1	9141.6	6194.8
72.5°	1387.6	1305.9	1030.0	893.4	833.1	748.7	892.1	1900.6	2654.7	4325.0	2810.1
75°	1271.1	1197.4	951.0	818.4	732.7	620.2	673.7	992.5	1190.7	1722.5	1354.2
77.5°	1127.8	1067.5	862.6	756.8	649.6	503.6	518.4	688.5	763.5	985.8	805.0
80°	810.4	831.8	767.5	680.4	578.6	408.5	397.8	502.3	542.5	633.5	523.7
82.5°	569.3	581.3	634.9	555.9	478.2	321.5	293.3	353.6	377.7	416.6	282.6
85°	392.5	379.1	435.3	387.1	345.6	214.3	200.9	239.8	254.5	258.5	146.0
87.5°	235.7	235.7	251.8	207.6	186.2	111.2	108.5	136.6	146.0	139.3	80.4
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°	7555.7	7555.7	7555.7	7555.7	7555.7	7555.7	7555.7	7555.7	7555.7	7555.7	7555.7
2.5°	7575.8	7480.7	7278.4	7116.4	6911.4	6698.5	6579.2	6452.0	6364.9	6302.0	6402.4
5°	7633.4	7439.2	7021.3	6624.8	6186.8	5731.4	5385.8	5064.4	4840.7	4701.4	4832.6
7.5°	7724.4	7425.8	6760.1	6082.3	5296.1	4538.0	3860.2	3435.6	3187.8	3065.9	3142.3
10°	7828.9	7404.3	6453.3	5347.0	4221.9	3266.9	2760.5	2589.1	2532.8	2510.1	2520.8
12.5°	7916.0	7358.8	6077.0	4457.6	3170.4	2579.7	2433.7	2429.7	2441.8	2444.4	2448.5
15°	7977.6	7291.8	5518.4	3530.7	2535.5	2350.7	2342.6	2366.8	2389.5	2398.9	2404.3
17.5°	8019.1	7153.9	4887.6	2791.4	2271.7	2239.5	2258.3	2289.1	2313.2	2319.9	2325.2
20°	8015.1	6951.6	4136.1	2327.9	2128.3	2128.3	2160.5	2184.6	2185.9	2177.9	2181.9
22.5°	7973.6	6674.3	3407.5	2081.5	2001.1	2023.9	2056.0	2033.2	1939.5	1877.9	1881.9
25°	7903.9	6343.5	2783.3	1924.7	1883.2	1923.4	1914.0	1742.6	1608.6	1548.4	1548.4
27.5°	7842.3	5952.4	2303.8	1788.1	1765.4	1814.9	1648.8	1493.5	1437.2	1409.1	1399.7
30°	7798.1	5530.5	1983.7	1656.9	1654.2	1618.0	1430.5	1387.6	1378.3	1355.5	1347.5
32.5°	7808.8	5103.2	1778.8	1541.7	1551.1	1385.0	1326.0	1335.4	1327.4	1303.3	1292.5
35°	7897.2	4697.4	1644.8	1437.2	1409.1	1251.0	1264.4	1281.8	1279.1	1245.7	1234.9
37.5°	8055.3	4312.9	1556.4	1350.1	1229.6	1184.0	1205.5	1232.3	1225.6	1202.8	1194.8
40°	8221.4	3951.3	1484.1	1281.8	1123.8	1138.5	1157.3	1172.0	1178.7	1185.4	1180.0
42.5°	8383.4	3573.6	1395.7	1212.2	1079.6	1095.6	1103.7	1118.4	1154.6	1180.0	1178.7
45°	8479.9	3218.6	1304.6	1113.1	1044.7	1054.1	1048.8	1078.2	1122.4	1164.0	1165.3
47.5°	8587.0	2942.7	1232.3	1022.0	1011.3	1018.0	1001.9	1031.4	1071.5	1122.4	1127.8
50°	8717.0	2778.0	1174.7	949.7	965.7	965.7	961.7	988.5	1044.7	1103.7	1114.4
52.5°	8864.3	2745.8	1126.5	897.4	920.2	918.8	922.9	963.0	1024.7	1082.3	1091.6
55°	9043.8	2832.9	1074.2	858.6	876.0	881.3	894.7	940.3	992.5	1058.1	1062.2
57.5°	9252.7	3009.7	1032.7	827.8	835.8	853.2	874.6	916.2	972.4	1044.7	1048.8
58°	9287.6	3047.2	1026.0	825.1	827.8	847.9	872.0	912.1	968.4	1047.4	1051.4
60°	9288.9	3171.8	1011.3	813.0	797.0	830.4	857.2	897.4	961.7	1056.8	1066.2
62.5°	8959.4	3170.4	1000.5	795.6	764.8	806.3	837.1	884.0	955.0	1079.6	1098.3
65°	7889.2	2881.1	949.7	768.8	739.4	784.9	819.7	874.6	973.8	1178.7	1190.7
67.5°	6170.7	2361.4	854.6	731.3	705.9	763.5	809.0	873.3	993.9	1201.5	1209.5
70°	4079.9	1766.7	750.1	688.5	671.1	738.0	814.4	918.8	971.1	1153.2	1131.8
72.5°	2117.6	1240.3	665.7	634.9	630.9	715.3	892.1	913.5	948.3	1084.9	1058.1
75°	1111.7	861.2	592.0	576.0	582.6	709.9	1052.8	889.4	918.8	1038.1	1089.0
77.5°	680.4	695.2	529.1	522.4	535.8	693.8	1051.4	858.6	876.0	955.0	1011.3
80°	455.4	563.9	480.9	482.2	491.6	634.9	944.3	810.4	823.7	902.8	960.4
82.5°	288.0	333.5	436.7	459.4	447.4	523.7	802.3	738.0	756.8	1032.7	1091.6
85°	146.0	208.9	379.1	442.0	403.2	367.0	651.0	646.9	656.3	744.7	778.2
87.5°	67.0	115.2	296.0	385.8	304.0	229.0	472.8	479.5	517.0	529.1	529.1
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)