

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: P190963

Luminaire Tested: **GLEON-AF-05-LED-E1-AFL-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190963
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: GLEON-AF-05-LED-E1-AFL-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25224.9 lumens
Efficiency: N/A
Efficacy: 120.1 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 - G2

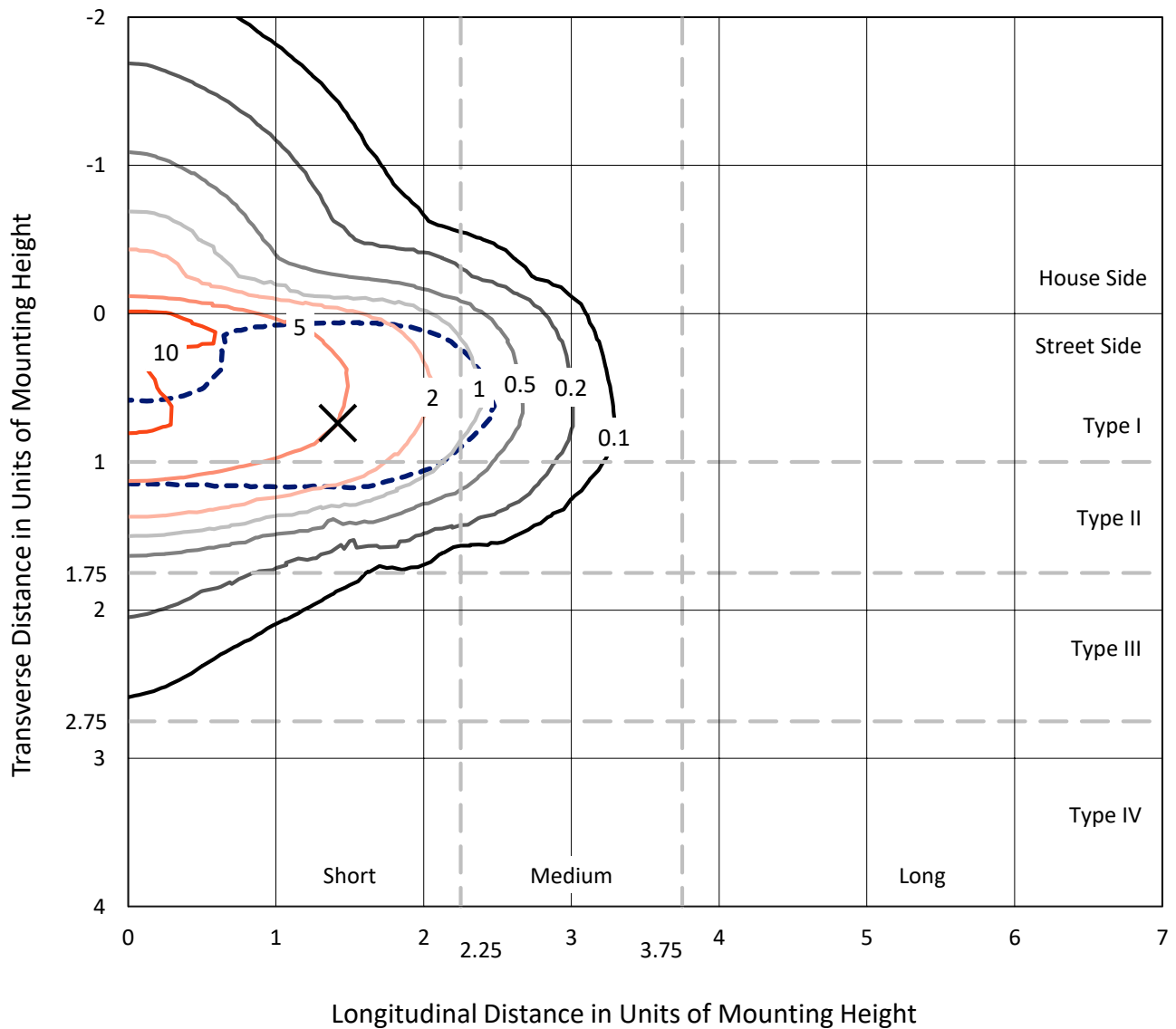
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

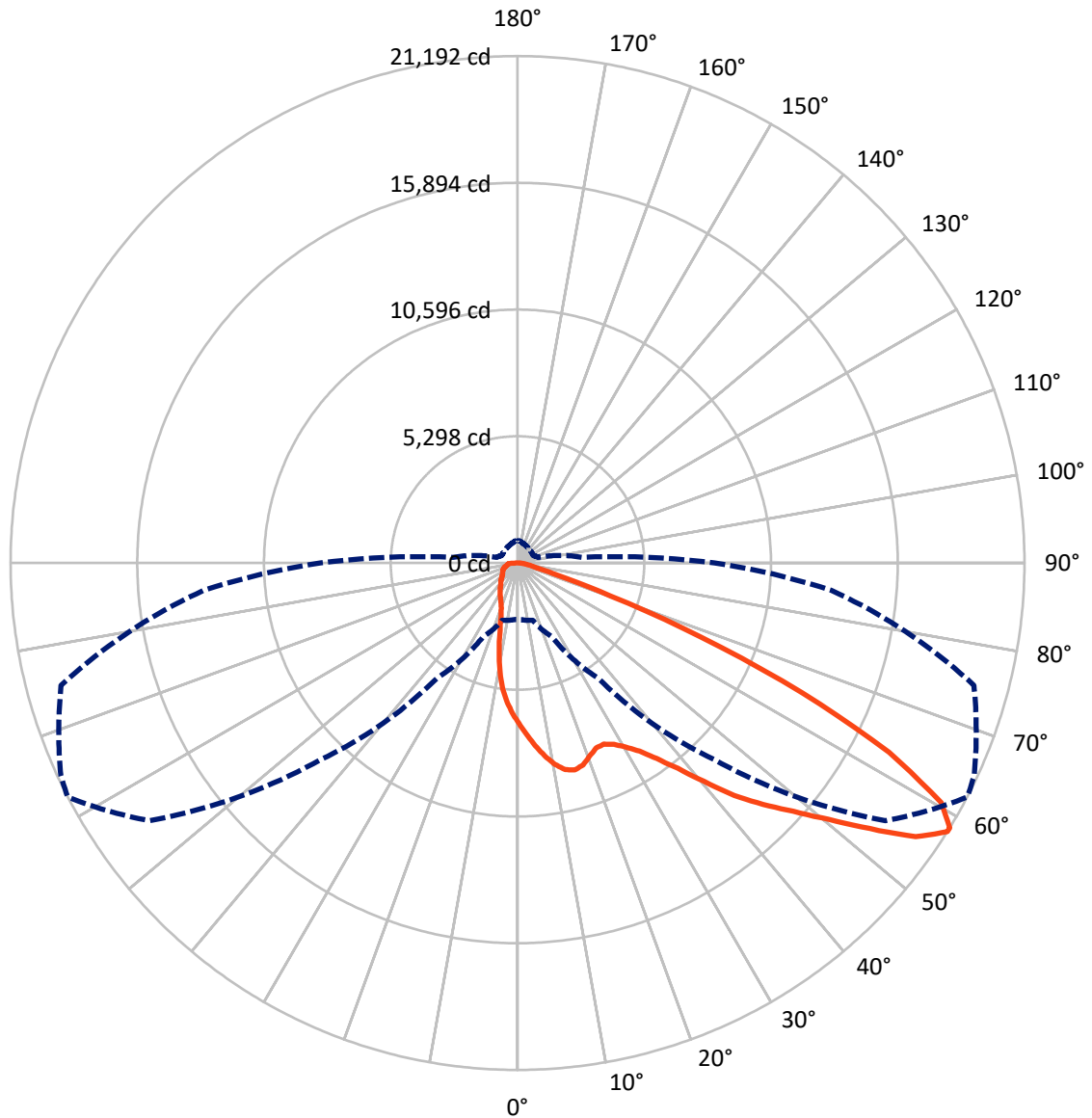


Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type II - Short - Full Cutoff

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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
House Side	Lumens	3846.9	0.0	3846.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	21378.0	0.0	21378.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	25224.9	0.0	25224.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.3	2.4
10°-20°	1531.8	6.1
20°-30°	2476.2	9.8
30°-40°	3931.0	15.6
40°-50°	5751.8	22.8
50°-60°	6015.9	23.8
60°-70°	3554.2	14.1
70°-80°	1001.2	4.0
80°-90°	363.5	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°	25224.9	100.0
0°-180°	25224.9	100.0



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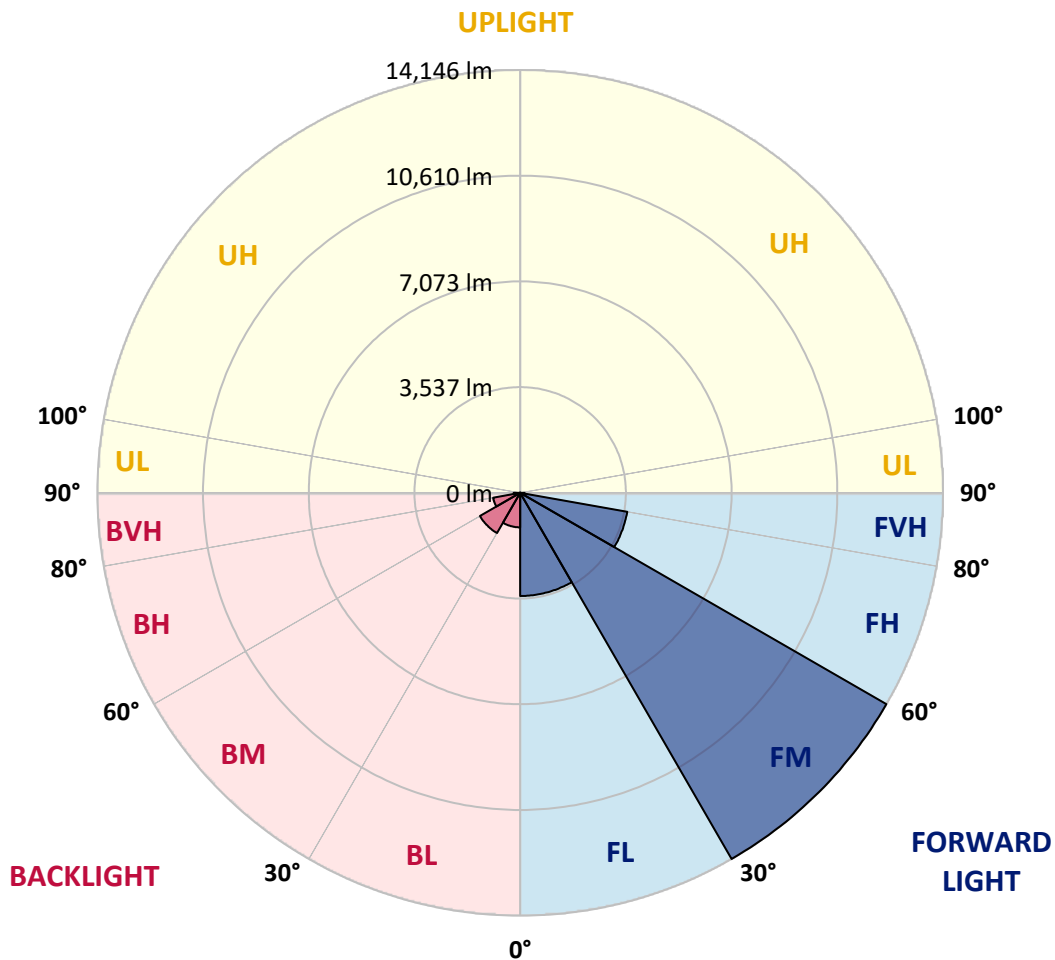
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3451.1	13.7			
FM	(30°-60°)	14146.0	56.1			
FH	(60°-80°)	3637.5	14.4			G2/5000
FVH	(80°-90°)	143.4	0.6			G2/225
BL	(0°-30°)	1156.2	4.6	B3/2500		
BM	(30°-60°)	1552.7	6.2	B2/2500		
BH	(60°-80°)	917.9	3.6	B2/1000		G2/1000
BVH	(80°-90°)	220.1	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	6700.5	6700.5	6700.5	6700.5	6700.5	6700.5	6700.5	6700.5	6700.5	6700.5	6700.5
2.5°	7656.7	7594.9	7555.7	7521.2	7476.1	7380.0	7250.5	7168.5	7126.9	6985.5	6818.1
5°	8407.4	8352.7	8312.4	8266.1	8185.2	8034.5	7825.4	7659.0	7577.1	7294.4	6959.4
7.5°	8231.6	8254.2	8324.3	8446.6	8551.2	8530.9	8344.4	8133.0	8024.9	7631.7	7123.3
10°	7172.0	7211.3	7332.4	7618.6	8081.9	8557.1	8701.9	8555.9	8446.6	7965.5	7292.0
12.5°	6959.4	6958.2	6967.7	7043.7	7319.3	7988.1	8713.8	8861.1	8795.8	8283.9	7464.3
15°	7046.2	7048.5	7041.4	7073.5	7159.0	7423.9	8350.3	8978.7	9025.1	8604.6	7642.5
17.5°	7274.2	7268.3	7241.0	7241.0	7271.9	7375.2	7922.8	8869.5	9083.3	8888.4	7799.2
20°	7656.7	7629.4	7556.9	7490.4	7457.1	7513.0	7747.0	8617.6	8982.3	9136.7	7928.7
22.5°	8120.0	8098.6	7981.0	7838.5	7723.2	7722.1	7837.2	8397.9	8807.7	9370.7	8037.9
25°	8718.6	8684.1	8509.5	8281.5	8079.6	8002.3	8034.5	8387.2	8712.7	9624.9	8135.4
27.5°	9421.8	9358.9	9152.1	8823.2	8526.2	8370.6	8324.3	8580.8	8799.3	9939.7	8270.8
30°	10274.6	10202.2	9937.3	9508.5	9089.2	8833.8	8735.2	8924.1	9086.9	10323.3	8488.1
32.5°	11245.1	11140.5	10834.1	10361.4	9810.2	9420.6	9260.3	9377.8	9507.3	10785.4	8760.1
35°	12586.2	12461.4	12018.3	11366.2	10743.8	10208.1	9951.6	10037.1	10163.0	11474.3	9153.4
37.5°	13500.8	13444.9	13150.3	12537.5	11860.4	11243.9	10847.2	10897.1	10968.3	12335.6	9657.0
40°	13492.4	13515.0	13521.0	13526.9	13066.0	12475.7	12049.2	11997.0	11982.7	13281.0	10229.5
42.5°	12816.6	12909.2	13208.5	13815.6	14095.9	13825.1	13434.2	13283.4	13208.5	14395.2	10836.5
45°	11781.9	11831.9	12392.5	13577.9	14623.3	15161.4	14865.5	14390.5	14255.0	15419.1	11340.1
47.5°	11248.7	11303.3	11656.1	12948.4	14617.4	16241.1	16412.1	15507.0	15264.7	16309.9	11774.9
50°	9978.9	10092.9	10537.1	11853.2	14084.0	16737.5	18028.7	16837.4	16336.1	17177.1	12210.8
52.5°	7647.2	7823.0	8320.7	10052.5	12731.0	16491.7	19322.3	18450.5	17742.5	18075.0	12585.0
55°	4823.7	4954.4	5372.5	7099.6	10184.4	15212.4	19812.8	20195.3	19565.8	18925.5	12909.2
57.5°	2622.7	2680.9	2837.7	3919.8	6624.4	12384.3	19097.8	21188.4	20927.0	19647.7	13153.9
58°	2347.2	2386.3	2483.7	3397.1	5874.9	11610.9	18780.7	21191.9	21061.2	19753.5	13172.9
60°	1741.4	1721.1	1634.5	1938.5	3270.1	8021.4	16863.4	20343.8	20727.4	19882.9	13080.3
62.5°	1529.9	1481.2	1304.3	1284.0	1590.5	3695.3	12903.3	17426.5	18332.8	19144.1	12517.2
65°	1437.2	1385.0	1157.0	1083.3	1147.4	1563.2	7600.8	13069.6	14206.3	16903.9	11077.6
67.5°	1368.4	1300.7	1063.1	962.1	966.9	1033.4	3046.8	8231.6	9510.9	12834.4	8616.4
70°	1301.8	1228.2	983.5	867.2	839.7	817.2	1211.6	4120.5	5281.1	8106.9	5493.7
72.5°	1230.6	1158.1	913.4	792.3	738.8	664.0	791.0	1685.5	2354.2	3835.5	2492.0
75°	1127.3	1061.9	843.3	725.8	649.8	549.9	597.5	880.1	1056.0	1527.6	1200.8
77.5°	1000.1	946.7	765.0	671.2	576.1	446.6	459.7	610.5	677.1	874.2	713.9
80°	718.6	737.6	680.7	603.4	513.1	362.3	352.8	445.4	481.1	561.8	464.4
82.5°	504.8	515.5	563.0	493.0	424.0	285.1	260.1	313.5	334.9	369.4	250.6
85°	348.0	336.1	386.1	343.3	306.5	190.1	178.2	212.6	225.7	229.2	129.5
87.5°	209.1	209.1	223.3	184.1	165.1	98.6	96.3	121.1	129.5	123.6	71.3
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°	6700.5	6700.5	6700.5	6700.5	6700.5	6700.5	6700.5	6700.5	6700.5	6700.5	6700.5
2.5°	6718.3	6633.9	6454.6	6310.9	6129.1	5940.3	5834.6	5721.8	5644.5	5588.7	5677.8
5°	6769.4	6597.1	6226.6	5874.9	5486.5	5082.6	4776.3	4491.2	4292.8	4169.2	4285.7
7.5°	6850.2	6585.2	5994.9	5393.9	4696.7	4024.3	3423.3	3046.8	2827.0	2718.9	2786.6
10°	6942.8	6566.2	5722.9	4741.8	3744.0	2897.1	2448.1	2296.0	2246.2	2225.9	2235.5
12.5°	7020.0	6525.9	5389.1	3953.1	2811.6	2287.7	2158.2	2154.7	2165.4	2167.7	2171.3
15°	7074.6	6466.5	4893.8	3131.0	2248.5	2084.7	2077.5	2098.9	2119.0	2127.4	2132.1
17.5°	7111.5	6344.1	4334.3	2475.4	2014.5	1986.1	2002.6	2029.9	2051.3	2057.3	2062.1
20°	7107.9	6164.8	3668.0	2064.4	1887.4	1887.4	1916.0	1937.4	1938.5	1931.4	1934.9
22.5°	7071.0	5918.9	3021.8	1845.9	1774.6	1794.8	1823.3	1803.2	1720.0	1665.4	1668.8
25°	7009.4	5625.5	2468.3	1706.9	1670.1	1705.7	1697.4	1545.4	1426.6	1373.1	1373.1
27.5°	6954.7	5278.6	2043.0	1585.8	1565.5	1609.5	1462.2	1324.4	1274.5	1249.6	1241.2
30°	6915.5	4904.5	1759.2	1469.4	1466.9	1434.9	1268.6	1230.6	1222.2	1202.1	1194.9
32.5°	6925.0	4525.6	1577.4	1367.2	1375.5	1228.2	1176.0	1184.3	1177.1	1155.7	1146.2
35°	7003.4	4165.7	1458.6	1274.5	1249.6	1109.4	1121.3	1136.7	1134.4	1104.7	1095.2
37.5°	7143.6	3824.8	1380.3	1197.4	1090.5	1050.1	1069.1	1092.8	1086.9	1066.6	1059.6
40°	7290.9	3504.1	1316.1	1136.7	996.6	1009.7	1026.3	1039.3	1045.3	1051.2	1046.5
42.5°	7434.6	3169.1	1237.7	1075.0	957.4	971.6	978.8	991.9	1023.9	1046.5	1045.3
45°	7520.1	2854.3	1157.0	987.0	926.5	934.8	930.1	956.2	995.4	1032.3	1033.4
47.5°	7615.2	2609.6	1092.8	906.3	896.8	902.8	888.5	914.6	950.2	995.4	1000.1
50°	7730.3	2463.6	1041.7	842.2	856.4	856.4	852.8	876.6	926.5	978.8	988.3
52.5°	7861.0	2435.0	998.9	795.9	816.0	814.9	818.4	854.1	908.7	959.7	968.1
55°	8020.1	2512.3	952.7	761.4	776.8	781.5	793.5	833.8	880.1	938.4	941.9
57.5°	8205.5	2669.0	915.8	734.1	741.2	756.7	775.6	812.4	862.3	926.5	930.1
58°	8236.4	2702.3	909.9	731.7	734.1	751.9	773.2	808.9	858.8	928.8	932.4
60°	8237.5	2812.8	896.8	721.0	706.8	736.4	760.2	795.9	852.8	937.2	945.5
62.5°	7945.4	2811.6	887.3	705.5	678.2	715.0	742.4	784.0	846.9	957.4	974.1
65°	6996.3	2555.0	842.2	681.8	655.7	696.0	726.9	775.6	863.6	1045.3	1056.0
67.5°	5472.3	2094.1	757.8	648.6	625.9	677.1	717.4	774.5	881.4	1065.5	1072.6
70°	3618.1	1566.8	665.2	610.5	595.1	654.5	722.2	814.9	861.1	1022.7	1003.7
72.5°	1877.9	1099.9	590.3	563.0	559.5	634.3	791.0	810.1	841.0	962.1	938.4
75°	985.9	763.7	525.0	510.8	516.7	629.5	933.6	788.7	814.9	920.6	965.7
77.5°	603.4	616.4	469.2	463.3	475.2	615.3	932.4	761.4	776.8	846.9	896.8
80°	403.9	500.1	426.5	427.6	435.9	563.0	837.4	718.6	730.5	800.6	851.7
82.5°	255.4	295.7	387.2	407.4	396.7	464.4	711.5	654.5	671.2	915.8	968.1
85°	129.5	185.3	336.1	392.0	357.5	325.5	577.3	573.7	582.1	660.4	690.1
87.5°	59.4	102.2	262.5	342.1	269.6	203.2	419.3	425.2	458.5	469.2	469.2
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)