

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: P452820

Luminaire Tested: **GALN-SA3D-740-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452820
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23535 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

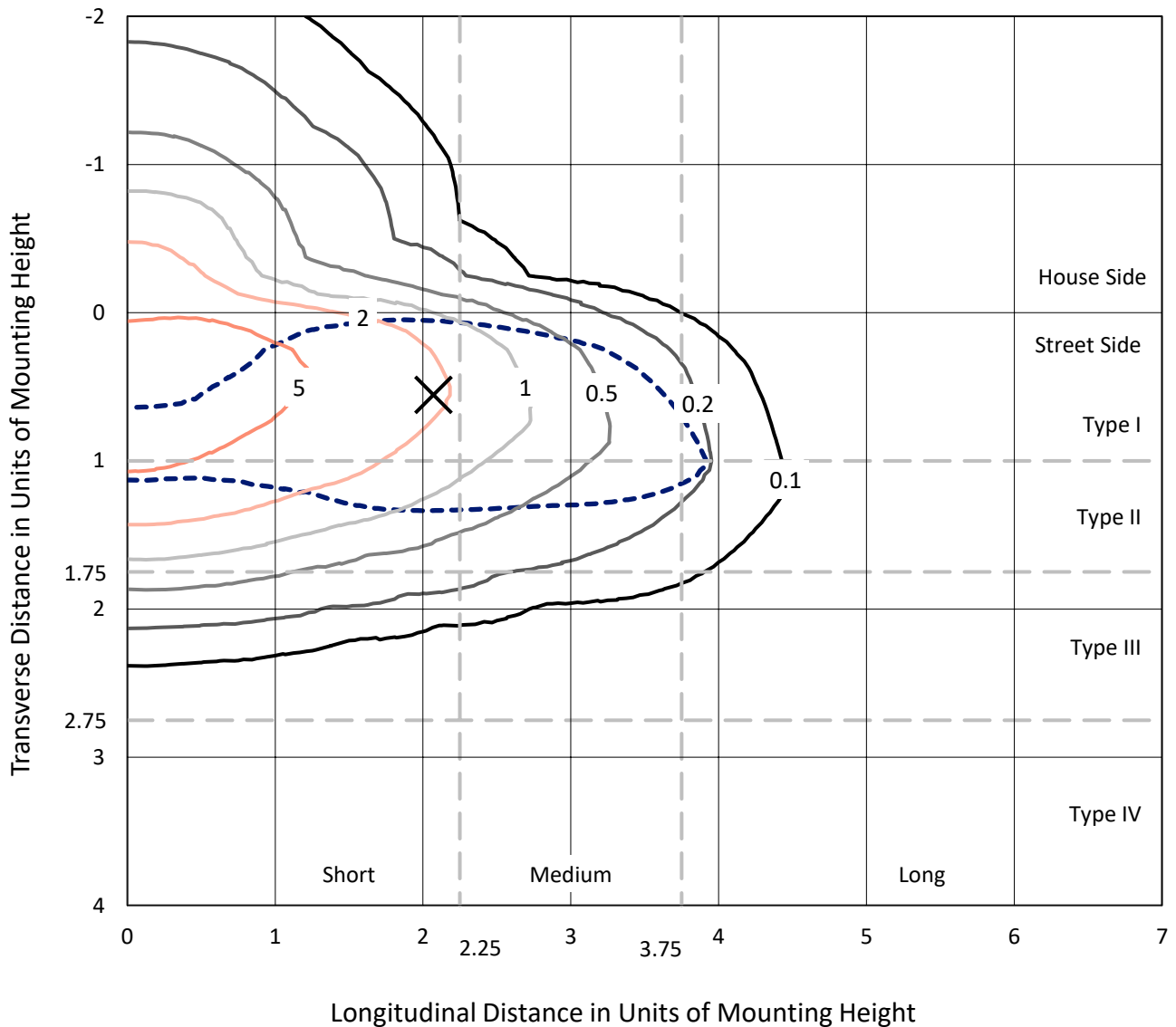
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

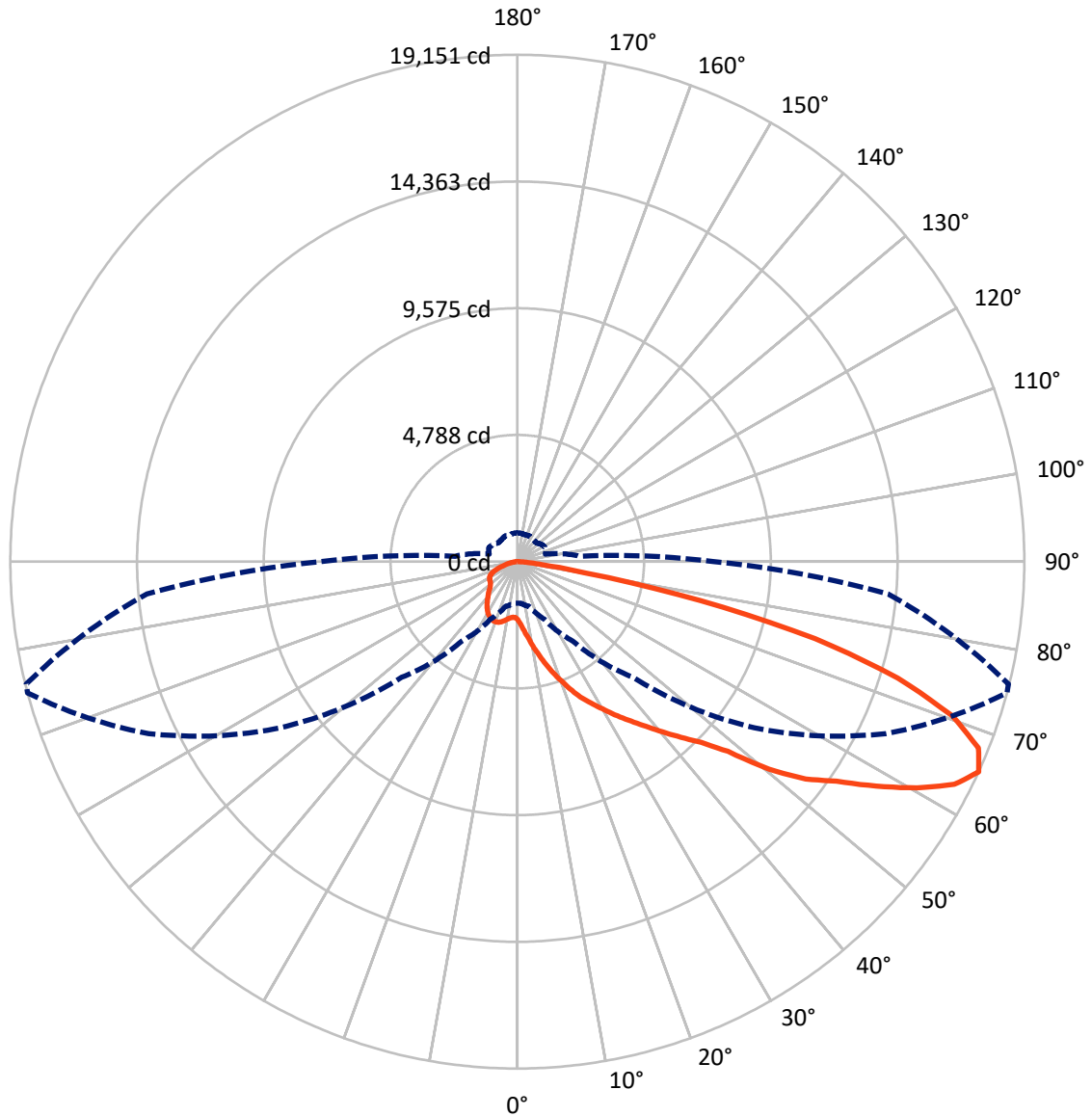
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3956.5	0.0	3956.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	19578.5	0.0	19578.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	23535.0	0.0	23535.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.7	1.1
10°-20°	1040.6	4.4
20°-30°	2010.1	8.5
30°-40°	3265.1	13.9
40°-50°	4491.4	19.1
50°-60°	5302.8	22.5
60°-70°	4646.1	19.7
70°-80°	2218.1	9.4
80°-90°	295.1	1.3
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°	23535.0	100.0
0°-180°	23535.0	100.0



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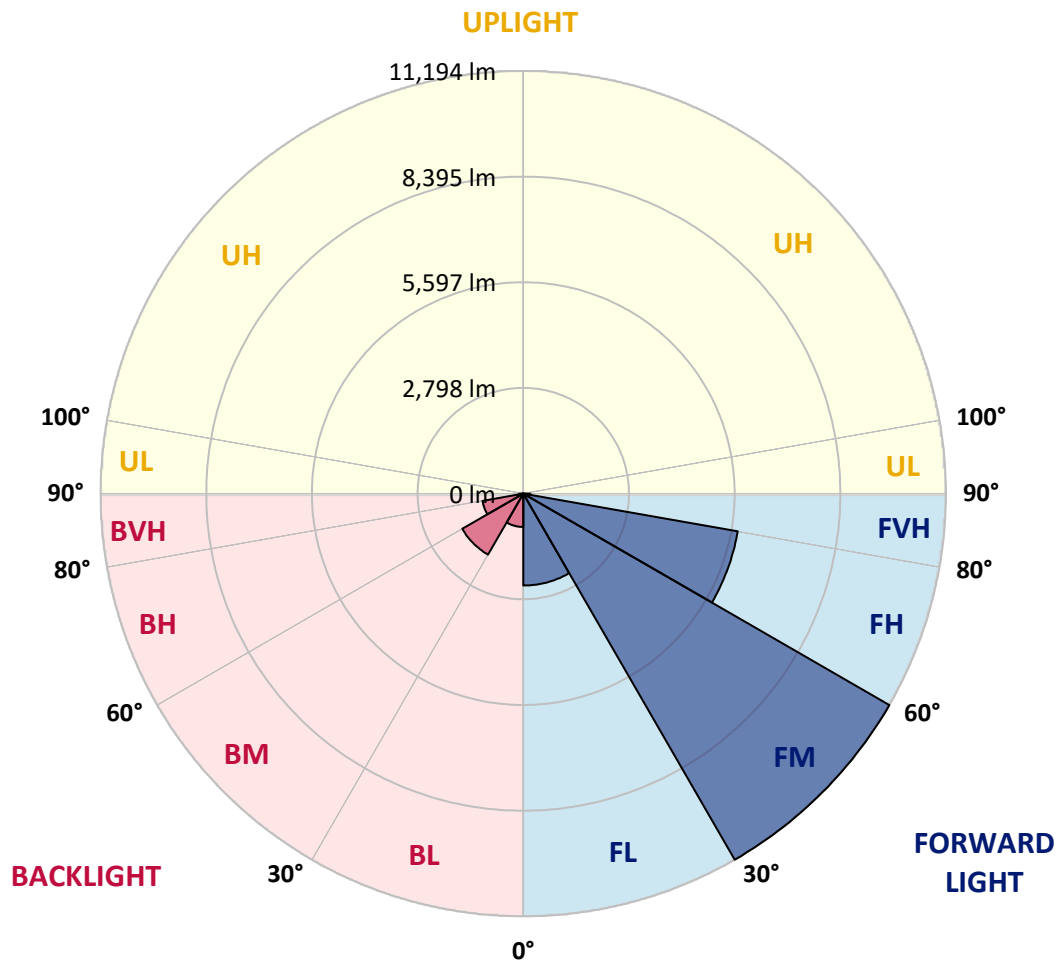
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2433.1	10.3			
FM	(30°-60°)	11193.7	47.6			
FH	(60°-80°)	5767.1	24.5			G3/7500
FVH	(80°-90°)	184.4	0.8			G2/225
BL	(0°-30°)	883.3	3.8	B2/1000		
BM	(30°-60°)	1865.5	7.9	B2/2500		
BH	(60°-80°)	1097.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	110.7	0.5			G2/225
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°	65°	75°	76°	85°
0°	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7
2.5°	2905.4	2886.2	2865.8	2809.6	2749.6	2682.0	2585.0	2491.8	2368.0	2364.1	2272.2
5°	3710.9	3698.1	3607.5	3555.1	3416.0	3230.9	3073.9	2830.1	2604.1	2577.3	2398.6
7.5°	4451.3	4401.5	4367.0	4272.6	4134.7	3897.3	3593.4	3264.1	2886.2	2850.5	2554.3
10°	5009.1	5004.0	4986.1	4904.4	4801.0	4564.9	4227.9	3755.6	3243.7	3173.5	2743.3
12.5°	5426.5	5430.4	5427.8	5426.5	5352.5	5152.1	4787.0	4289.1	3604.9	3555.1	2961.6
15°	5701.0	5739.3	5754.6	5818.4	5824.8	5690.8	5376.8	4804.9	4012.1	3938.1	3196.4
17.5°	5882.3	5901.4	5972.9	6081.4	6169.5	6145.2	5865.7	5282.3	4428.3	4304.5	3440.3
20°	6055.9	6089.1	6143.9	6292.0	6447.8	6519.2	6322.7	5771.2	4840.6	4761.5	3709.6
22.5°	6417.1	6464.4	6483.5	6558.8	6691.6	6818.0	6728.6	6239.7	5292.5	5185.3	3995.5
25°	7028.6	7078.4	7024.8	7006.9	7050.3	7112.8	7093.7	6681.4	5718.9	5565.7	4266.2
27.5°	7825.1	7831.5	7726.8	7627.3	7520.0	7488.1	7429.4	7073.3	6089.1	5961.4	4538.1
30°	8680.4	8649.8	8476.2	8296.2	8114.9	7936.2	7767.7	7451.1	6501.4	6354.6	4804.9
32.5°	9474.4	9457.8	9265.1	8985.5	8679.1	8510.6	8169.8	7832.8	6943.1	6801.4	5079.3
35°	10069.3	10093.5	9881.6	9576.5	9242.1	9092.7	8662.5	8233.6	7400.1	7245.6	5378.0
37.5°	10491.8	10479.0	10291.4	10027.2	9733.6	9603.3	9238.3	8671.5	7891.5	7743.4	5704.8
40°	10642.4	10634.8	10495.6	10302.9	10116.5	10070.6	9840.8	9143.8	8454.5	8280.9	6098.0
42.5°	10546.7	10563.3	10471.4	10419.1	10384.6	10417.8	10439.5	9762.9	9068.5	8908.9	6524.4
45°	10253.1	10244.2	10231.4	10316.9	10511.0	10729.2	11031.8	10347.6	9736.1	9608.5	7096.2
47.5°	9728.4	9792.3	9824.2	10060.3	10484.2	11001.1	11713.5	11131.4	10705.0	10593.9	7968.1
50°	8994.4	9045.5	9234.4	9654.4	10286.3	11103.3	12379.8	12413.0	12321.1	12113.0	8915.3
52.5°	7848.1	7927.3	8316.6	9086.4	9880.4	11061.1	12783.2	13512.1	13633.4	13477.6	9848.4
55°	6565.2	6676.3	7087.3	8097.0	9321.2	10831.4	13061.5	14149.1	14632.9	14488.6	10747.1
57.5°	5309.1	5426.5	5849.1	6826.9	8346.0	10323.3	13244.0	14858.8	15993.7	15806.0	11865.4
60°	3978.9	4101.5	4464.0	5471.2	6957.1	9330.2	13120.2	15474.1	17353.2	17272.8	12984.9
62.5°	2567.1	2702.4	3017.7	3851.3	5347.4	7973.2	12457.7	15813.7	18530.1	18433.1	13801.9
65°	1563.8	1579.1	1752.7	2390.9	3659.8	6173.3	10942.4	15363.1	19150.5	19121.2	14050.8
67.5°	1011.0	1035.3	1114.4	1432.3	2194.4	4287.9	8749.3	13875.9	18788.0	18777.8	13536.3
70°	854.0	861.7	897.4	966.3	1275.3	2600.3	6143.9	11505.4	17410.6	17410.6	12299.4
72.5°	763.4	773.6	786.3	808.0	910.2	1473.1	3666.2	8956.1	15032.4	15132.0	10468.8
75°	693.2	690.6	698.3	702.1	776.1	962.5	1895.6	6623.9	11629.2	11430.1	7581.3
77.5°	593.6	597.4	593.6	610.2	685.5	732.7	962.5	4444.9	7047.7	6789.9	3805.3
80°	487.6	494.0	500.4	510.6	585.9	556.6	578.3	2025.9	2606.7	2551.8	1175.7
82.5°	366.4	375.3	385.5	409.8	460.8	367.6	365.1	865.5	940.8	861.7	432.7
85°	148.1	174.9	264.2	288.5	289.8	201.7	224.7	361.3	384.2	375.3	169.8
87.5°	34.5	40.8	85.5	128.9	118.7	75.3	83.0	117.4	134.0	123.8	57.4
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°	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7
2.5°	2230.1	2185.4	2108.8	2050.1	2008.0	1971.0	1948.0	1933.9	1928.8	1927.6	1928.8
5°	2305.4	2226.3	2105.0	2028.4	1986.3	1962.0	1948.0	1946.7	1948.0	1949.3	1945.4
7.5°	2408.8	2295.2	2136.9	2065.4	2033.5	2015.6	2009.3	2006.7	2008.0	2006.7	2006.7
10°	2546.7	2390.9	2199.5	2125.4	2098.6	2078.2	2068.0	2061.6	2056.5	2051.4	2048.8
12.5°	2698.6	2496.9	2267.1	2195.6	2157.3	2125.4	2102.4	2085.9	2074.4	2062.9	2060.3
15°	2868.4	2609.2	2342.4	2242.9	2188.0	2140.7	2101.2	2074.4	2053.9	2037.3	2036.1
17.5°	3030.5	2715.2	2393.5	2264.6	2184.1	2117.8	2065.4	2028.4	2002.9	1981.2	1978.6
20°	3204.1	2816.0	2416.5	2250.5	2145.8	2065.4	1996.5	1951.8	1922.5	1898.2	1894.4
22.5°	3379.0	2901.6	2413.9	2205.8	2079.5	1985.0	1912.2	1865.0	1830.5	1806.3	1797.4
25°	3546.2	2970.5	2382.0	2134.4	1987.6	1889.3	1815.2	1771.8	1741.2	1711.8	1711.8
27.5°	3696.8	3011.3	2322.0	2047.6	1893.1	1789.7	1731.0	1691.4	1663.3	1644.2	1632.7
30°	3844.9	3030.5	2240.3	1937.8	1793.5	1705.4	1658.2	1635.2	1609.7	1588.0	1585.5
32.5°	3977.7	3026.7	2138.2	1830.5	1699.1	1636.5	1617.4	1599.5	1572.7	1542.1	1534.4
35°	4106.6	3001.1	2016.9	1713.1	1619.9	1595.7	1600.8	1575.2	1526.7	1488.4	1482.1
37.5°	4247.0	2955.2	1884.2	1617.4	1553.5	1576.5	1589.3	1533.1	1454.0	1394.0	1379.9
40°	4409.1	2902.8	1746.3	1521.6	1501.2	1558.6	1558.6	1455.2	1346.7	1309.7	1299.5
42.5°	4599.3	2859.4	1631.4	1441.2	1457.8	1515.2	1508.9	1351.8	1307.2	1288.0	1282.9
45°	4900.6	2844.1	1512.7	1371.0	1422.1	1464.2	1411.8	1316.1	1290.6	1275.3	1270.1
47.5°	5376.8	2862.0	1408.0	1318.7	1381.2	1413.1	1303.3	1291.9	1274.0	1252.3	1249.7
50°	5818.4	2845.4	1334.0	1289.3	1345.5	1351.8	1258.7	1262.5	1252.3	1228.0	1222.9
52.5°	6179.7	2793.1	1286.7	1274.0	1314.8	1244.6	1216.5	1230.6	1226.7	1196.1	1191.0
55°	6576.7	2761.1	1263.8	1274.0	1294.4	1151.4	1177.0	1197.4	1192.3	1170.6	1169.3
57.5°	7057.9	2767.5	1247.2	1277.8	1274.0	1104.2	1137.4	1161.6	1160.4	1154.0	1154.0
60°	7550.7	2770.1	1221.6	1276.5	1249.7	1067.2	1096.5	1131.0	1133.6	1137.4	1137.4
62.5°	7714.1	2659.0	1171.9	1253.6	1196.1	1031.4	1058.2	1105.5	1102.9	1113.1	1114.4
65°	7409.0	2351.4	1097.8	1201.2	1127.2	1005.9	1028.9	1072.3	1058.2	1085.1	1090.2
67.5°	6743.9	1945.4	982.9	1106.8	1050.6	979.1	1009.7	1026.3	1000.8	1053.1	1054.4
70°	5828.6	1519.1	837.4	972.7	963.8	951.0	994.4	968.9	933.1	997.0	984.2
72.5°	4873.8	1160.4	668.9	795.3	847.6	908.9	967.6	894.8	845.1	864.2	841.2
75°	3661.1	857.8	537.4	622.9	705.9	848.9	943.4	805.5	728.9	711.0	705.9
77.5°	1866.3	560.4	402.1	465.9	529.8	767.2	910.2	700.8	603.8	575.7	563.0
80°	666.3	348.5	283.4	321.7	357.4	660.0	795.3	579.5	468.5	463.4	468.5
82.5°	308.9	224.7	190.2	210.6	211.9	440.4	606.4	432.7	356.2	541.2	457.0
85°	132.8	112.3	107.2	104.7	97.0	196.6	340.8	232.3	362.5	162.1	149.4
87.5°	39.6	44.7	39.6	29.4	21.7	21.7	34.5	12.8	8.9	6.4	6.4
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)