

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: P452818

Luminaire Tested: **GALN-SA3D-740-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
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-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23225 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

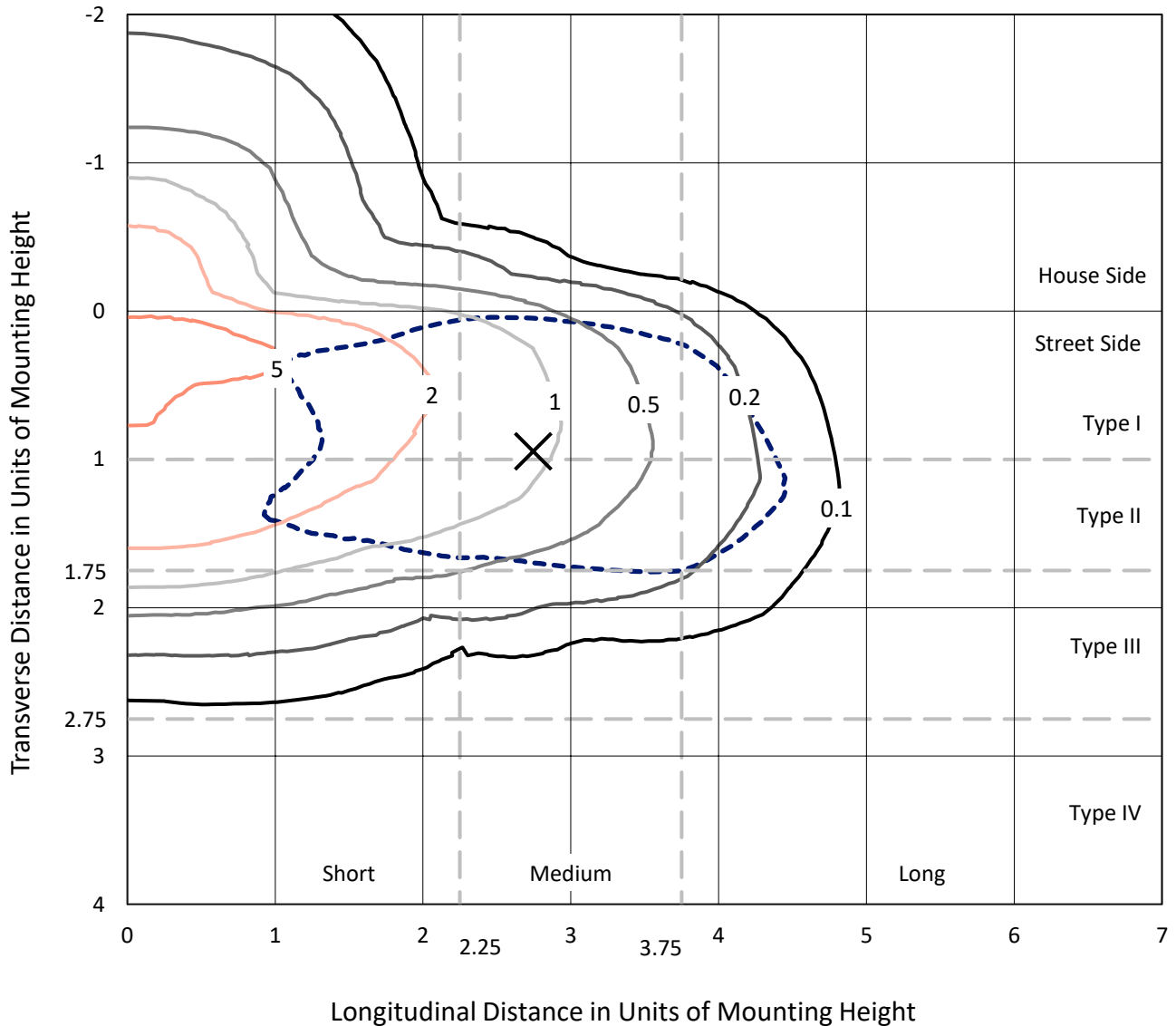
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

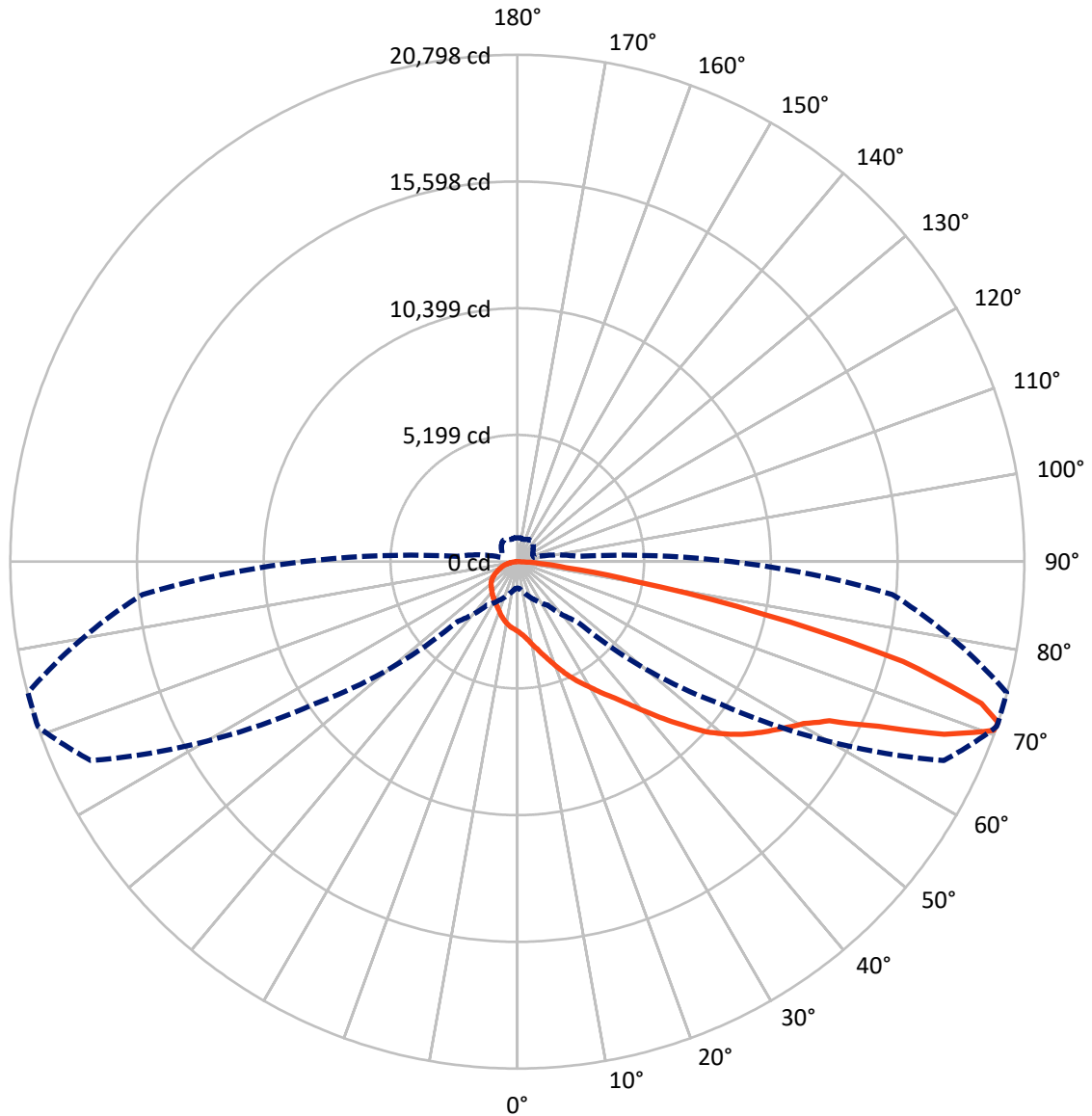
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4177.0	0.0	4177.0
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	19048.0	0.0	19048.0
	% Fixture	82.0	0.0	82.0
Total	Lumens	23225.0	0.0	23225.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.2	1.2
10°-20°	929.8	4.0
20°-30°	1625.0	7.0
30°-40°	2416.9	10.4
40°-50°	3561.1	15.3
50°-60°	4985.5	21.5
60°-70°	5576.1	24.0
70°-80°	3406.1	14.7
80°-90°	438.2	1.9
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°	23225.0	100.0
0°-180°	23225.0	100.0

Coefficient of Utilization



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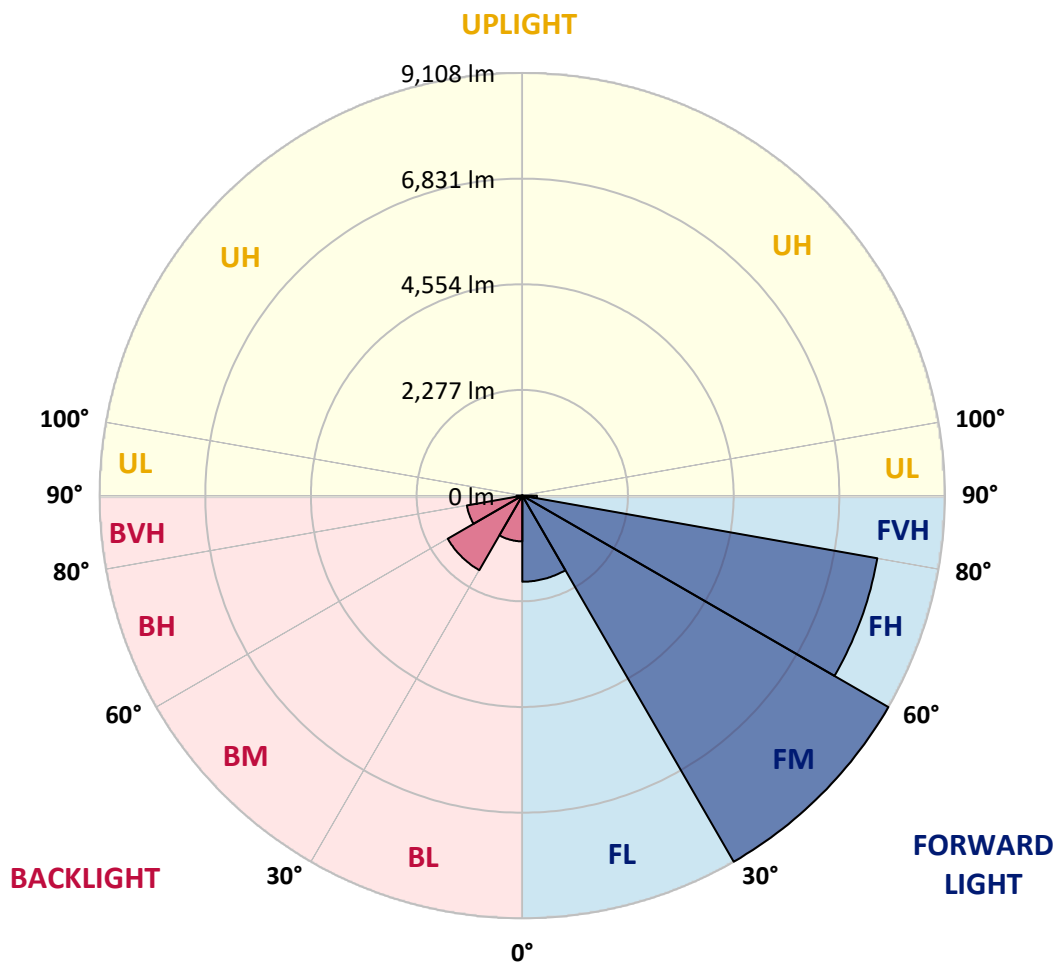
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1855.7	8.0			
FM	(30°-60°)	9108.4	39.2			
FH	(60°-80°)	7768.7	33.4			G4/12000
FVH	(80°-90°)	315.3	1.4			G3/500
BL	(0°-30°)	985.3	4.2	B2/1000		
BM	(30°-60°)	1855.1	8.0	B2/2500		
BH	(60°-80°)	1213.6	5.2	B3/2500		G3/2500
BVH	(80°-90°)	122.9	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4
2.5°	3164.4	3149.1	3150.4	3128.7	3100.6	3070.0	3026.6	2988.3	2957.6	2939.8	2887.4
5°	3506.5	3491.2	3472.1	3424.8	3404.4	3329.1	3233.4	3146.6	3080.2	3043.2	2938.5
7.5°	3783.5	3779.7	3774.6	3747.8	3695.4	3590.8	3509.1	3358.5	3260.2	3190.0	3011.2
10°	3954.6	3961.0	3964.8	3969.9	3948.2	3893.3	3781.0	3590.8	3465.7	3376.3	3105.7
12.5°	4041.4	4047.8	4069.5	4116.7	4146.1	4139.7	4047.8	3861.4	3689.1	3571.6	3206.6
15°	4095.0	4105.2	4143.5	4206.0	4304.3	4366.9	4322.2	4149.9	3961.0	3821.8	3326.5
17.5°	4153.7	4165.2	4207.3	4296.7	4425.6	4560.9	4609.4	4461.3	4255.8	4089.9	3460.6
20°	4186.9	4202.2	4262.2	4379.7	4530.3	4726.9	4887.7	4809.8	4585.2	4401.4	3615.0
22.5°	4240.5	4253.3	4304.3	4429.4	4609.4	4855.8	5166.0	5149.4	4951.5	4714.1	3784.8
25°	4386.0	4406.5	4432.0	4507.3	4680.9	4987.3	5397.0	5511.9	5306.4	5040.9	3940.5
27.5°	4660.5	4677.1	4675.8	4686.0	4784.3	5100.9	5597.4	5870.6	5658.7	5371.5	4091.2
30°	4973.2	4979.6	4984.7	4961.7	4983.4	5217.0	5781.2	6225.5	6013.6	5711.0	4222.6
32.5°	5353.6	5366.4	5323.0	5264.3	5246.4	5389.4	5933.1	6580.3	6433.5	6055.7	4352.8
35°	5802.9	5836.1	5748.1	5644.7	5571.9	5637.0	6137.4	6942.8	6863.7	6496.1	4525.2
37.5°	6316.1	6356.9	6275.2	6072.3	5968.9	5986.8	6404.2	7390.9	7407.5	6997.7	4781.7
40°	6736.1	6789.7	6792.2	6505.0	6348.0	6368.4	6742.4	7873.4	8063.6	7618.1	5084.3
42.5°	7013.1	7065.4	7120.3	6951.8	6787.1	6903.3	7136.9	8396.8	8801.4	8371.2	5506.8
45°	7316.9	7364.1	7394.7	7318.1	7226.2	7527.5	7613.0	8953.3	9587.7	9212.5	5968.9
47.5°	7669.2	7721.5	7750.9	7678.1	7643.6	8075.1	8126.2	9472.9	10427.7	10029.4	6479.5
50°	8138.9	8178.5	8163.2	8117.2	8109.6	8495.1	8618.9	9959.2	11120.8	10908.9	7009.2
52.5°	8723.6	8770.8	8787.4	8722.3	8692.9	8795.0	9015.9	10402.1	11751.4	11664.6	7574.7
55°	9077.1	9152.5	9405.2	9507.3	9577.5	9183.1	9443.5	10891.0	12316.9	12461.1	8182.3
57.5°	8624.0	8721.0	9286.5	9797.1	10457.0	10153.2	10049.8	11401.6	12882.4	13233.4	8909.9
60°	7518.5	7540.2	8269.1	9209.9	10537.5	11400.4	11314.8	12213.5	13495.1	14012.1	9868.6
62.5°	5215.8	5261.7	6123.3	7624.5	9544.3	11849.7	13467.0	13615.1	14373.3	15177.5	11274.0
65°	2689.6	2629.6	3414.6	4792.0	7195.6	10782.5	15210.7	16192.3	16277.8	17000.3	13252.6
67.5°	1655.6	1682.4	2050.0	2798.1	4254.6	7836.4	15028.2	19341.4	18890.8	19238.0	15089.4
70°	1243.3	1276.5	1529.2	1914.7	2593.8	4480.5	12085.8	20104.8	20734.1	20644.7	15648.5
71°	1081.2	1115.7	1378.6	1742.4	2179.0	3458.0	10182.6	19305.7	20797.9	20782.6	15437.9
72.5°	921.6	943.3	1148.8	1475.6	1836.9	2424.1	7650.0	17314.4	19910.8	20420.1	14686.1
75°	723.8	740.4	832.3	1125.9	1446.3	1488.4	4105.2	12980.7	16353.2	17323.3	12226.3
77.5°	589.7	601.2	648.5	836.1	1115.7	1054.4	2153.4	8449.1	10245.1	11221.7	7202.0
80°	468.5	481.2	509.3	566.8	836.1	751.9	1027.6	4281.4	4949.0	4938.8	2874.7
82.5°	363.8	367.6	400.8	416.1	571.9	533.6	556.6	1812.6	2007.9	2074.3	1037.8
85°	229.8	241.3	354.9	319.1	342.1	312.7	274.4	719.9	887.2	874.4	414.9
87.5°	70.2	74.0	120.0	135.3	151.9	136.6	100.8	211.9	259.1	280.8	103.4
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°	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4
2.5°	2867.0	2853.0	2803.2	2762.3	2724.0	2681.9	2646.2	2636.0	2627.0	2623.2	2621.9
5°	2893.8	2851.7	2753.4	2673.0	2609.2	2550.4	2513.4	2496.8	2480.2	2480.2	2485.3
7.5°	2932.1	2855.5	2703.6	2583.6	2503.2	2448.3	2421.5	2419.0	2422.8	2426.6	2427.9
10°	2974.2	2853.0	2630.9	2481.5	2410.0	2384.5	2385.8	2407.5	2427.9	2443.2	2445.8
12.5°	3015.1	2837.6	2545.3	2385.8	2339.8	2344.9	2380.7	2429.2	2468.7	2490.4	2491.7
15°	3061.0	2813.4	2441.9	2295.1	2279.8	2319.4	2385.8	2459.8	2519.8	2555.5	2559.4
17.5°	3099.3	2772.5	2333.4	2207.1	2226.2	2299.0	2390.9	2486.6	2559.4	2604.0	2611.7
20°	3142.7	2720.2	2221.1	2122.8	2177.7	2276.0	2380.7	2484.1	2559.4	2602.8	2613.0
22.5°	3177.2	2646.2	2113.9	2053.9	2134.3	2247.9	2346.2	2429.2	2490.4	2513.4	2528.7
25°	3191.2	2553.0	2013.0	1997.7	2099.8	2202.0	2268.3	2315.6	2334.7	2332.2	2338.5
27.5°	3183.6	2445.8	1926.2	1953.0	2056.4	2130.5	2163.7	2159.8	2125.4	2093.4	2108.8
30°	3151.7	2318.1	1853.5	1907.1	2000.3	2041.1	2036.0	1986.2	1921.1	1861.1	1865.0
32.5°	3094.2	2180.3	1785.8	1854.7	1921.1	1939.0	1904.5	1839.4	1746.2	1668.4	1656.9
35°	3045.7	2048.8	1725.8	1794.8	1842.0	1833.0	1799.9	1715.6	1631.4	1562.4	1550.9
37.5°	3038.1	1936.4	1668.4	1727.1	1753.9	1741.1	1700.3	1628.8	1598.2	1545.8	1539.5
40°	3078.9	1857.3	1609.7	1655.6	1668.4	1658.2	1613.5	1572.6	1600.7	1588.0	1588.0
42.5°	3190.0	1815.2	1557.3	1584.1	1594.3	1602.0	1570.1	1535.6	1570.1	1511.4	1492.2
45°	3366.1	1816.5	1510.1	1513.9	1544.6	1571.4	1549.7	1498.6	1480.7	1363.3	1340.3
47.5°	3625.2	1859.9	1471.8	1447.5	1502.4	1547.1	1516.5	1442.4	1363.3	1285.4	1271.4
50°	3927.8	1937.7	1437.3	1378.6	1446.3	1516.5	1493.5	1406.7	1325.0	1277.8	1268.8
52.5°	4263.5	2036.0	1395.2	1302.0	1377.3	1502.4	1498.6	1401.6	1289.3	1257.3	1249.7
55°	4678.3	2133.0	1342.9	1212.7	1316.1	1490.9	1484.6	1359.5	1281.6	1258.6	1256.1
57.5°	5160.9	2273.4	1267.6	1122.0	1245.9	1443.7	1429.7	1333.9	1256.1	1239.5	1238.2
60°	5938.2	2491.7	1160.3	1039.1	1174.4	1360.7	1378.6	1290.5	1215.2	1211.4	1210.1
62.5°	6960.7	2798.1	1049.3	953.5	1091.4	1253.5	1304.6	1231.8	1171.8	1191.0	1193.5
65°	8372.5	3055.9	934.4	880.8	999.5	1150.1	1234.4	1176.9	1123.3	1160.3	1160.3
67.5°	9292.9	3061.0	829.7	805.5	906.3	1063.3	1160.3	1111.8	1060.8	1123.3	1125.9
70°	9101.4	2681.9	742.9	726.3	815.7	970.1	1078.6	1040.3	981.6	1037.8	1017.4
71°	8792.5	2471.3	708.5	695.7	779.9	925.5	1040.3	1008.4	949.7	986.7	975.2
72.5°	8299.8	2145.8	652.3	654.8	726.3	869.3	986.7	953.5	894.8	915.2	911.4
75°	7015.6	1873.9	557.8	569.3	624.2	773.6	879.5	854.0	794.0	794.0	790.1
77.5°	4386.0	1309.7	463.4	469.7	529.7	662.5	755.7	734.0	676.5	657.4	652.3
80°	1636.5	676.5	362.5	370.2	407.2	522.1	625.5	605.1	546.3	524.6	504.2
82.5°	619.1	339.5	266.8	260.4	300.0	398.3	490.2	465.9	420.0	367.6	352.3
85°	233.6	168.5	163.4	158.3	176.2	236.2	303.8	298.7	250.2	213.2	209.3
87.5°	61.3	54.9	63.8	47.2	49.8	44.7	46.0	19.1	8.9	3.8	2.6
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)