

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: P458852

Luminaire Tested: **GALN-SA3D-735-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458852
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-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 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: 21924 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

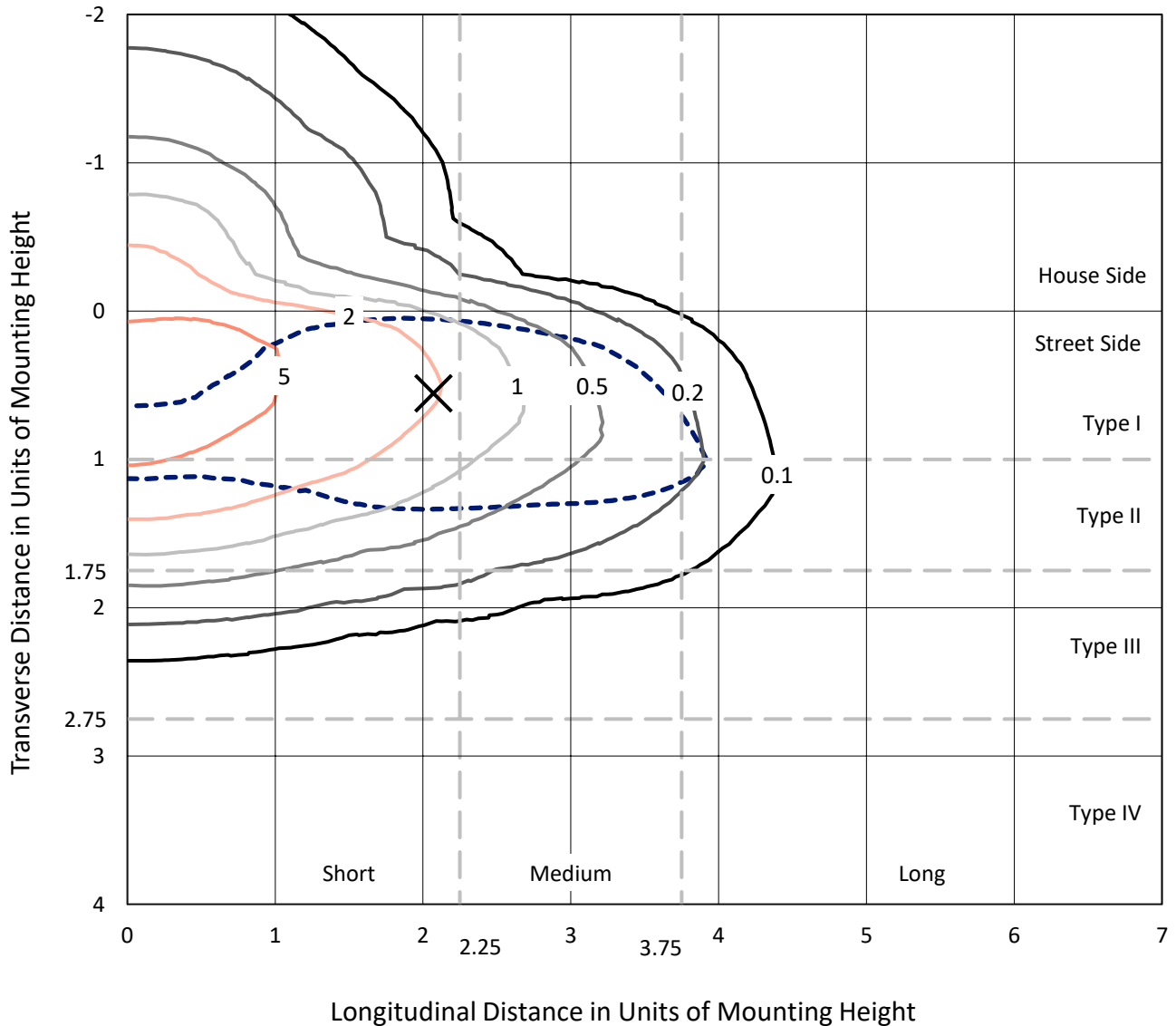
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

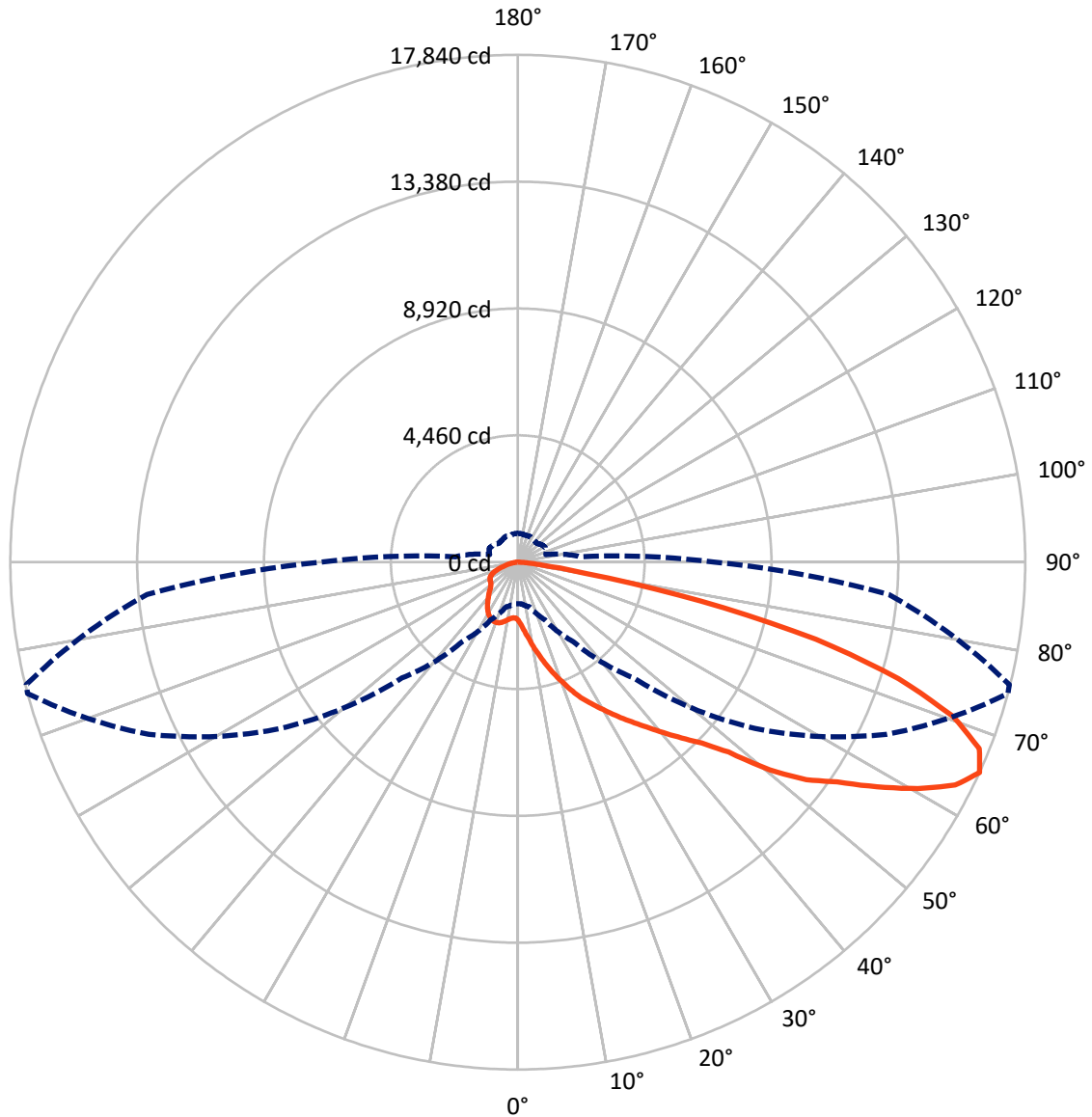
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	3685.7	0.0	3685.7
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	18238.3	0.0	18238.3
	% Fixture	83.2	0.0	83.2
Total	Lumens	21924.0	0.0	21924.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.5	1.1
10°-20°	969.4	4.4
20°-30°	1872.5	8.5
30°-40°	3041.6	13.9
40°-50°	4183.9	19.1
50°-60°	4939.8	22.5
60°-70°	4328.1	19.7
70°-80°	2066.3	9.4
80°-90°	274.9	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°	21924.0	100.0
0°-180°	21924.0	100.0

Coefficient of Utilization



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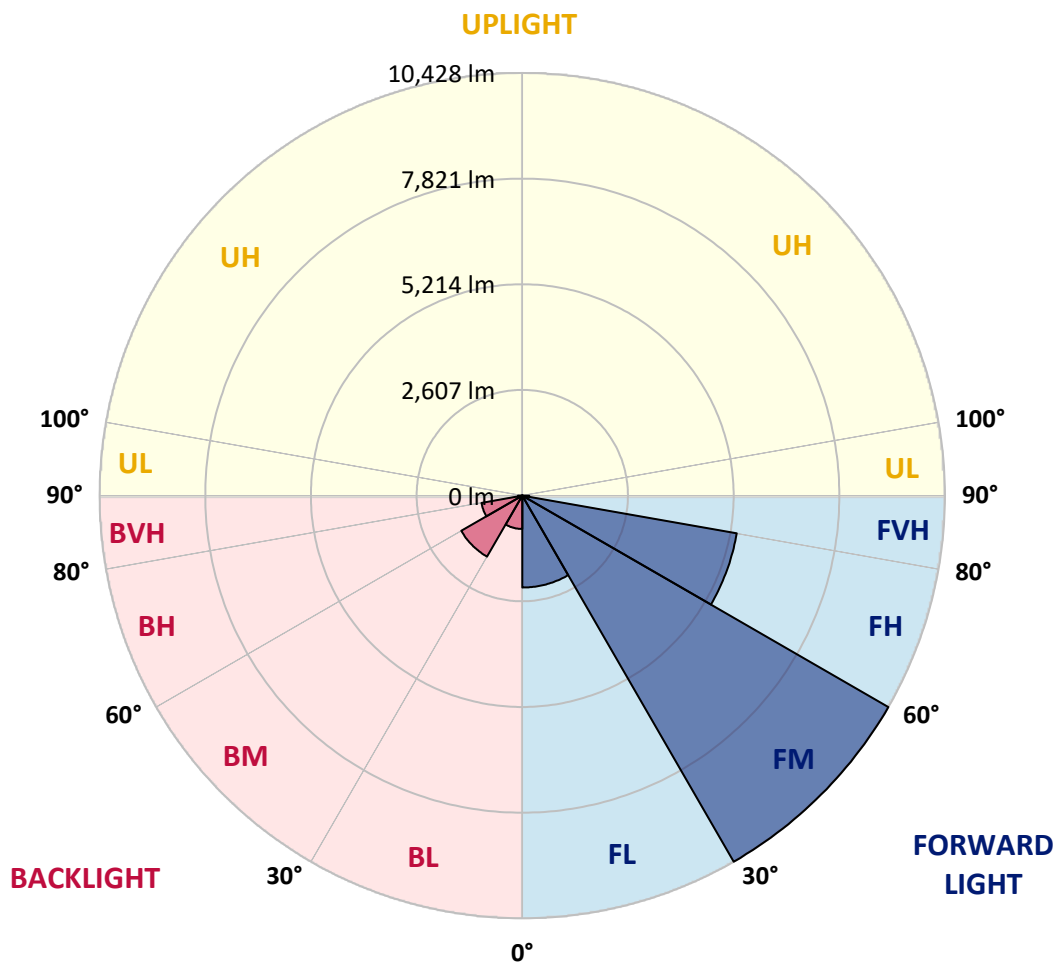
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2266.6	10.3			
FM	(30°-60°)	10427.5	47.6			
FH	(60°-80°)	5372.4	24.5			G3/7500
FVH	(80°-90°)	171.8	0.8			G2/225
BL	(0°-30°)	822.8	3.8	B2/1000		
BM	(30°-60°)	1737.8	7.9	B2/2500		
BH	(60°-80°)	1022.0	4.7	B3/2500		G3/2500
BVH	(80°-90°)	103.1	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°	2037.0	2037.0	2037.0	2037.0	2037.0	2037.0	2037.0	2037.0	2037.0	2037.0	2037.0
2.5°	2706.5	2688.7	2669.6	2617.3	2561.4	2498.4	2408.0	2321.2	2205.9	2202.3	2116.7
5°	3456.9	3445.0	3360.5	3311.8	3182.2	3009.7	2863.5	2636.3	2425.9	2400.9	2234.4
7.5°	4146.6	4100.2	4068.1	3980.1	3851.7	3630.5	3347.5	3040.7	2688.7	2655.4	2379.5
10°	4666.2	4661.5	4644.8	4568.7	4472.4	4252.4	3938.5	3498.5	3021.6	2956.2	2555.5
12.5°	5055.1	5058.7	5056.3	5055.1	4986.1	4799.4	4459.3	3995.5	3358.2	3311.8	2758.8
15°	5310.8	5346.4	5360.7	5420.2	5426.1	5301.2	5008.7	4476.0	3737.5	3668.5	2977.6
17.5°	5479.6	5497.4	5564.0	5665.1	5747.2	5724.6	5464.2	4920.7	4125.2	4009.8	3204.8
20°	5641.3	5672.3	5723.4	5861.3	6006.4	6073.0	5889.9	5376.2	4509.3	4435.5	3455.7
22.5°	5977.9	6021.9	6039.7	6109.9	6233.5	6351.3	6268.0	5812.6	4930.2	4830.3	3722.0
25°	6547.5	6593.8	6543.9	6527.3	6567.7	6626.0	6608.1	6224.0	5327.4	5184.7	3974.1
27.5°	7289.5	7295.4	7197.9	7105.2	7005.3	6975.6	6920.9	6589.1	5672.3	5553.3	4227.4
30°	8086.2	8057.7	7896.0	7728.3	7559.4	7393.0	7236.0	6941.1	6056.3	5919.6	4476.0
32.5°	8825.9	8810.4	8630.9	8370.4	8085.0	7928.1	7610.6	7296.6	6467.8	6335.8	4731.6
35°	9380.0	9402.6	9205.2	8921.0	8609.5	8470.3	8069.6	7670.0	6893.5	6749.6	5009.9
37.5°	9773.6	9761.7	9586.9	9340.8	9067.3	8946.0	8605.9	8077.9	7351.3	7213.4	5314.3
40°	9914.0	9906.8	9777.2	9597.6	9424.0	9381.2	9167.2	8517.9	7875.8	7714.0	5680.6
42.5°	9824.8	9840.2	9754.6	9705.9	9673.7	9704.7	9724.9	9094.6	8447.7	8299.1	6077.8
45°	9551.3	9542.9	9531.0	9610.7	9791.5	9994.8	10276.6	9639.3	9069.7	8950.7	6610.5
47.5°	9062.5	9122.0	9151.7	9371.7	9766.5	10248.1	10911.7	10369.4	9972.2	9868.8	7422.7
50°	8378.8	8426.3	8602.3	8993.6	9582.2	10343.2	11532.4	11563.3	11477.7	11283.9	8305.0
52.5°	7310.9	7384.6	7747.3	8464.4	9204.0	10304.0	11908.2	12587.2	12700.1	12555.1	9174.3
55°	6115.8	6219.3	6602.2	7542.8	8683.2	10090.0	12167.4	13180.6	13631.2	13496.9	10011.5
57.5°	4945.7	5055.1	5448.7	6359.6	7774.7	9616.7	12337.4	13841.7	14898.9	14724.1	11053.2
60°	3706.6	3820.7	4158.5	5096.7	6480.9	8691.5	12222.1	14414.9	16165.3	16090.4	12096.0
62.5°	2391.4	2517.4	2811.2	3587.7	4981.4	7427.4	11604.9	14731.2	17261.7	17171.3	12857.1
65°	1456.7	1471.0	1632.7	2227.3	3409.3	5750.7	10193.4	14311.4	17839.7	17812.3	13089.0
67.5°	941.8	964.4	1038.1	1334.2	2044.2	3994.4	8150.4	12926.1	17501.9	17492.4	12609.8
70°	795.5	802.7	836.0	900.2	1188.0	2422.3	5723.4	10717.8	16218.8	16218.8	11457.5
72.5°	711.1	720.6	732.5	752.7	847.9	1372.3	3415.2	8343.1	14003.4	14096.2	9752.2
75°	645.7	643.3	650.5	654.0	723.0	896.6	1765.9	6170.5	10833.2	10647.7	7062.4
77.5°	553.0	556.5	553.0	568.4	638.6	682.6	896.6	4140.6	6565.3	6325.1	3544.9
80°	454.3	460.2	466.1	475.7	545.8	518.5	538.7	1887.2	2428.2	2377.1	1095.2
82.5°	341.3	349.6	359.1	381.7	429.3	342.5	340.1	806.2	876.4	802.7	403.1
85°	137.9	162.9	246.2	268.7	269.9	187.9	209.3	336.5	357.9	349.6	158.2
87.5°	32.1	38.1	79.7	120.1	110.6	70.2	77.3	109.4	124.9	115.3	53.5
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°	2037.0	2037.0	2037.0	2037.0	2037.0	2037.0	2037.0	2037.0	2037.0	2037.0	2037.0
2.5°	2077.4	2035.8	1964.5	1909.8	1870.5	1836.0	1814.6	1801.6	1796.8	1795.6	1796.8
5°	2147.6	2073.9	1960.9	1889.6	1850.3	1827.7	1814.6	1813.5	1814.6	1815.8	1812.3
7.5°	2243.9	2138.1	1990.6	1924.0	1894.3	1877.7	1871.7	1869.3	1870.5	1869.3	1869.3
10°	2372.4	2227.3	2048.9	1979.9	1955.0	1935.9	1926.4	1920.5	1915.7	1911.0	1908.6
12.5°	2513.9	2326.0	2111.9	2045.3	2009.7	1979.9	1958.5	1943.1	1932.4	1921.7	1919.3
15°	2672.0	2430.6	2182.1	2089.3	2038.2	1994.2	1957.3	1932.4	1913.3	1897.9	1896.7
17.5°	2823.0	2529.3	2229.7	2109.6	2034.6	1972.8	1924.0	1889.6	1865.8	1845.6	1843.2
20°	2984.8	2623.3	2251.1	2096.5	1999.0	1924.0	1859.8	1818.2	1790.9	1768.3	1764.7
22.5°	3147.7	2702.9	2248.7	2054.9	1937.1	1849.1	1781.3	1737.4	1705.2	1682.6	1674.3
25°	3303.5	2767.2	2219.0	1988.3	1851.5	1759.9	1691.0	1650.5	1622.0	1594.7	1594.7
27.5°	3443.8	2805.2	2163.1	1907.4	1763.5	1667.2	1612.5	1575.6	1549.5	1531.6	1520.9
30°	3581.7	2823.0	2087.0	1805.1	1670.8	1588.7	1544.7	1523.3	1499.5	1479.3	1476.9
32.5°	3705.4	2819.5	1991.8	1705.2	1582.8	1524.5	1506.7	1490.0	1465.0	1436.5	1429.4
35°	3825.5	2795.7	1878.9	1595.8	1509.0	1486.4	1491.2	1467.4	1422.2	1386.6	1380.6
37.5°	3956.3	2752.9	1755.2	1506.7	1447.2	1468.6	1480.5	1428.2	1354.4	1298.6	1285.5
40°	4107.3	2704.1	1626.8	1417.5	1398.4	1452.0	1452.0	1355.6	1254.6	1220.1	1210.6
42.5°	4284.5	2663.7	1519.7	1342.6	1358.0	1411.5	1405.6	1259.3	1217.7	1199.9	1195.1
45°	4565.2	2649.4	1409.1	1277.1	1324.7	1364.0	1315.2	1226.0	1202.2	1188.0	1183.2
47.5°	5008.7	2666.1	1311.6	1228.4	1286.7	1316.4	1214.1	1203.4	1186.8	1166.6	1164.2
50°	5420.2	2650.6	1242.7	1201.0	1253.4	1259.3	1172.5	1176.1	1166.6	1144.0	1139.2
52.5°	5756.7	2601.9	1198.7	1186.8	1224.8	1159.4	1133.3	1146.3	1142.8	1114.2	1109.5
55°	6126.5	2572.1	1177.3	1186.8	1205.8	1072.6	1096.4	1115.4	1110.7	1090.5	1089.3
57.5°	6574.8	2578.1	1161.8	1190.3	1186.8	1028.6	1059.5	1082.1	1080.9	1075.0	1075.0
60°	7033.8	2580.5	1138.0	1189.2	1164.2	994.1	1021.5	1053.6	1056.0	1059.5	1059.5
62.5°	7186.0	2477.0	1091.6	1167.7	1114.2	960.8	985.8	1029.8	1027.4	1036.9	1038.1
65°	6901.8	2190.4	1022.7	1119.0	1050.0	937.1	958.5	998.9	985.8	1010.8	1015.5
67.5°	6282.3	1812.3	915.6	1031.0	978.7	912.1	940.6	956.1	932.3	981.0	982.2
70°	5429.7	1415.1	780.1	906.1	897.8	885.9	926.3	902.6	869.3	928.7	916.8
72.5°	4540.2	1080.9	623.1	740.8	789.6	846.7	901.4	833.6	787.2	805.1	783.7
75°	3410.5	799.1	500.6	580.3	657.6	790.8	878.8	750.4	679.0	662.4	657.6
77.5°	1738.5	522.0	374.6	434.0	493.5	714.7	847.9	652.8	562.5	536.3	524.4
80°	620.7	324.6	264.0	299.7	333.0	614.8	740.8	539.9	436.4	431.7	436.4
82.5°	287.8	209.3	177.2	196.2	197.4	410.3	564.8	403.1	331.8	504.2	425.7
85°	123.7	104.6	99.9	97.5	90.4	183.1	317.5	216.4	337.7	151.0	139.1
87.5°	36.9	41.6	36.9	27.4	20.2	20.2	32.1	11.9	8.3	5.9	5.9
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)