

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: P458850

Luminaire Tested: **GALN-SA3D-735-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458850
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-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21635 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

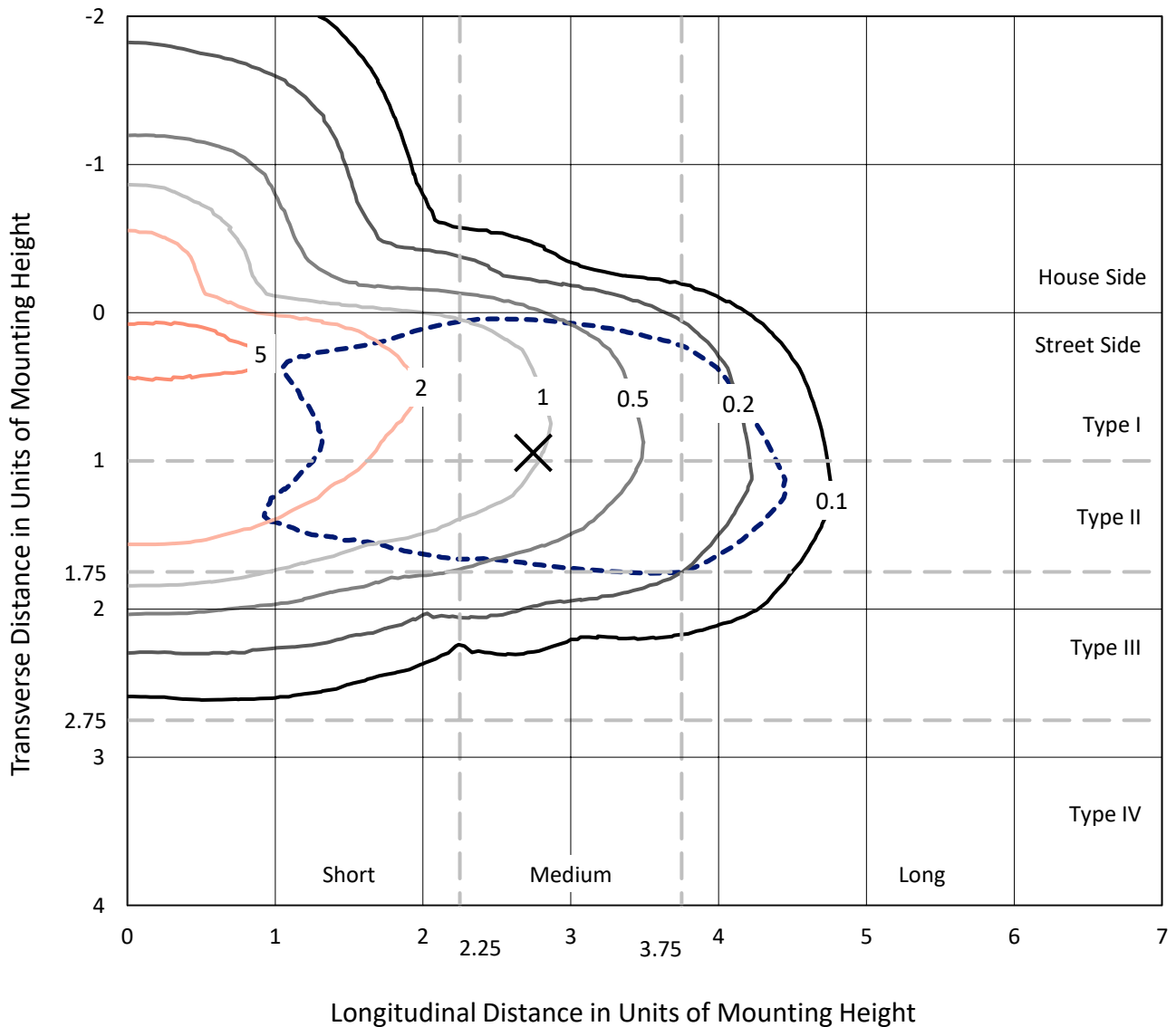
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

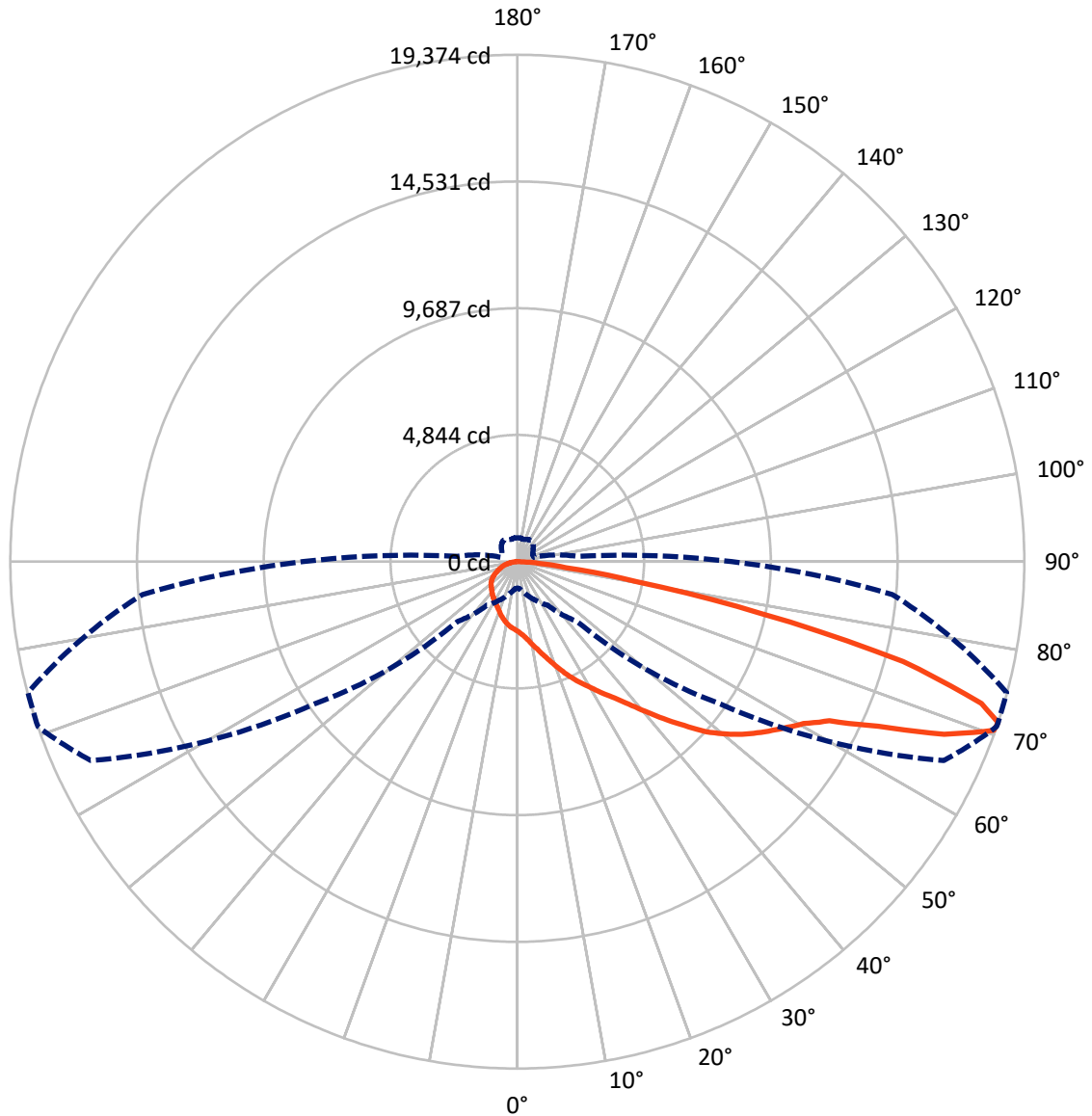
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	3891.0	0.0	3891.0
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	17744.0	0.0	17744.0
	% Fixture	82.0	0.0	82.0
Total	Lumens	21635.0	0.0	21635.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.6	1.2
10°-20°	866.2	4.0
20°-30°	1513.7	7.0
30°-40°	2251.5	10.4
40°-50°	3317.3	15.3
50°-60°	4644.2	21.5
60°-70°	5194.4	24.0
70°-80°	3172.9	14.7
80°-90°	408.2	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°	21635.0	100.0
0°-180°	21635.0	100.0

Coefficient of Utilization



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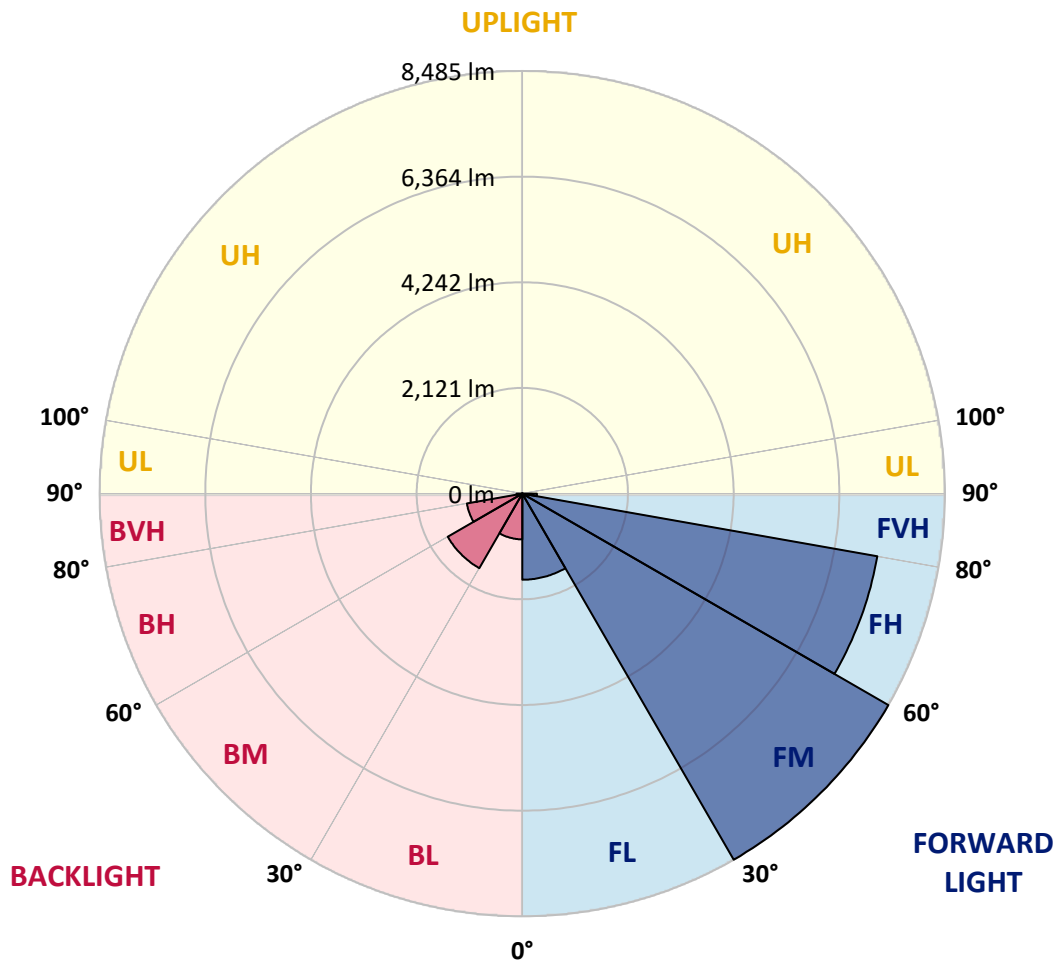
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1728.7	8.0			
FM (30°-60°)	8484.8	39.2			
FH (60°-80°)	7236.8	33.4			G3/7500
FVH (80°-90°)	293.7	1.4			G3/500
BL (0°-30°)	917.9	4.2	B2/1000		
BM (30°-60°)	1728.1	8.0	B2/2500		
BH (60°-80°)	1130.5	5.2	B3/2500		G3/2500
BVH (80°-90°)	114.5	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2655.3	2655.3	2655.3	2655.3	2655.3	2655.3	2655.3	2655.3	2655.3	2655.3	2655.3
2.5°	2947.8	2933.5	2934.7	2914.5	2888.3	2859.8	2819.4	2783.7	2755.2	2738.5	2689.8
5°	3266.5	3252.2	3234.4	3190.4	3171.3	3101.2	3012.0	2931.1	2869.3	2834.8	2737.3
7.5°	3524.5	3520.9	3516.2	3491.2	3442.5	3344.9	3268.8	3128.5	3037.0	2971.6	2805.1
10°	3683.8	3689.8	3693.4	3698.1	3677.9	3626.8	3522.1	3344.9	3228.4	3145.2	2893.1
12.5°	3764.7	3770.6	3790.9	3834.9	3862.2	3856.3	3770.6	3597.0	3436.5	3327.1	2987.0
15°	3814.6	3824.2	3859.8	3918.1	4009.7	4067.9	4026.3	3865.8	3689.8	3560.2	3098.8
17.5°	3869.3	3880.0	3919.3	4002.5	4122.6	4248.7	4293.9	4155.9	3964.5	3809.9	3223.7
20°	3900.3	3914.5	3970.4	4079.8	4220.1	4403.3	4553.1	4480.5	4271.3	4100.0	3367.5
22.5°	3950.2	3962.1	4009.7	4126.2	4293.9	4523.4	4812.3	4796.8	4612.5	4391.4	3525.7
25°	4085.8	4104.8	4128.6	4198.7	4360.4	4645.8	5027.5	5134.6	4943.1	4695.8	3670.8
27.5°	4341.4	4356.9	4355.7	4365.2	4456.8	4751.7	5214.2	5468.7	5271.3	5003.8	3811.1
30°	4632.7	4638.7	4643.5	4622.0	4642.3	4859.9	5385.5	5799.3	5601.9	5320.1	3933.6
32.5°	4987.1	4999.0	4958.6	4903.9	4887.2	5020.4	5527.0	6129.8	5993.1	5641.1	4054.8
35°	5405.7	5436.6	5354.5	5258.2	5190.4	5251.1	5717.2	6467.5	6393.8	6051.4	4215.4
37.5°	5883.7	5921.7	5845.6	5656.6	5560.3	5576.9	5965.7	6884.9	6900.4	6518.7	4454.4
40°	6274.9	6324.8	6327.2	6059.7	5913.4	5932.4	6280.8	7334.4	7511.6	7096.6	4736.2
42.5°	6532.9	6581.7	6632.8	6475.9	6322.5	6430.7	6648.3	7821.9	8198.9	7798.1	5129.8
45°	6815.9	6859.9	6888.5	6817.1	6731.5	7012.1	7091.8	8340.4	8931.4	8581.8	5560.3
47.5°	7144.1	7192.9	7220.2	7152.5	7120.4	7522.3	7569.8	8824.3	9713.8	9342.8	6035.9
50°	7581.7	7618.6	7604.3	7561.5	7554.4	7913.5	8028.8	9277.4	10359.5	10162.1	6529.4
52.5°	8126.3	8170.3	8185.8	8125.1	8097.8	8192.9	8398.6	9690.0	10946.9	10866.0	7056.1
55°	8455.7	8525.9	8761.3	8856.4	8921.8	8554.4	8797.0	10145.4	11473.7	11608.0	7622.2
57.5°	8033.6	8124.0	8650.7	9126.4	9741.1	9458.1	9361.8	10621.1	12000.4	12327.4	8299.9
60°	7003.8	7024.0	7703.0	8579.4	9816.1	10619.9	10540.2	11377.3	12571.2	13052.8	9193.0
62.5°	4858.7	4901.5	5704.1	7102.5	8890.9	11038.5	12545.0	12683.0	13389.3	14138.4	10502.2
65°	2505.4	2449.6	3180.9	4463.9	6703.0	10044.4	14169.4	15083.8	15163.5	15836.5	12345.3
67.5°	1542.3	1567.2	1909.7	2606.5	3963.3	7299.9	13999.3	18017.3	17597.6	17921.0	14056.4
70°	1158.2	1189.1	1424.5	1783.7	2416.3	4173.8	11258.4	18728.4	19314.6	19231.4	14577.2
71°	1007.2	1039.3	1284.2	1623.1	2029.8	3221.3	9485.5	17984.0	19374.1	19359.8	14381.0
72.5°	858.5	878.7	1070.2	1374.6	1711.1	2258.1	7126.3	16129.0	18547.6	19022.1	13680.6
75°	674.2	689.7	775.3	1048.8	1347.3	1386.5	3824.2	12092.0	15233.6	16137.3	11389.2
77.5°	549.4	560.1	604.1	778.9	1039.3	982.2	2006.0	7870.7	9543.7	10453.4	6708.9
80°	436.4	448.3	474.5	528.0	778.9	700.4	957.2	3988.3	4610.2	4600.6	2677.9
82.5°	338.9	342.5	373.4	387.6	532.7	497.0	518.4	1688.5	1870.5	1932.3	966.7
85°	214.0	224.7	330.6	297.3	318.7	291.3	255.7	670.7	826.4	814.5	386.5
87.5°	65.4	69.0	111.8	126.0	141.5	127.2	93.9	197.4	241.4	261.6	96.3
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°	2655.3	2655.3	2655.3	2655.3	2655.3	2655.3	2655.3	2655.3	2655.3	2655.3	2655.3
2.5°	2670.7	2657.6	2611.3	2573.2	2537.5	2498.3	2465.0	2455.5	2447.2	2443.6	2442.4
5°	2695.7	2656.5	2564.9	2490.0	2430.5	2375.8	2341.3	2325.9	2310.4	2310.4	2315.2
7.5°	2731.4	2660.0	2518.5	2406.7	2331.8	2280.7	2255.7	2253.4	2256.9	2260.5	2261.7
10°	2770.6	2657.6	2450.7	2311.6	2245.0	2221.2	2222.4	2242.7	2261.7	2275.9	2278.3
12.5°	2808.7	2643.4	2371.1	2222.4	2179.6	2184.4	2217.7	2262.9	2299.7	2319.9	2321.1
15°	2851.5	2620.8	2274.8	2138.0	2123.7	2160.6	2222.4	2291.4	2347.3	2380.6	2384.2
17.5°	2887.1	2582.7	2173.7	2056.0	2073.8	2141.6	2227.2	2316.4	2384.2	2425.8	2432.9
20°	2927.6	2534.0	2069.0	1977.5	2028.6	2120.2	2217.7	2314.0	2384.2	2424.6	2434.1
22.5°	2959.7	2465.0	1969.2	1913.3	1988.2	2094.0	2185.6	2262.9	2319.9	2341.3	2355.6
25°	2972.8	2378.2	1875.2	1860.9	1956.1	2051.2	2113.0	2157.0	2174.9	2172.5	2178.4
27.5°	2965.6	2278.3	1794.4	1819.3	1915.6	1984.6	2015.5	2012.0	1979.9	1950.1	1964.4
30°	2935.9	2159.4	1726.6	1776.5	1863.3	1901.4	1896.6	1850.2	1789.6	1733.7	1737.3
32.5°	2882.4	2031.0	1663.6	1727.8	1789.6	1806.2	1774.1	1713.5	1626.7	1554.2	1543.5
35°	2837.2	1908.5	1607.7	1671.9	1715.9	1707.6	1676.6	1598.2	1519.7	1455.5	1444.8
37.5°	2830.1	1803.9	1554.2	1608.9	1633.8	1621.9	1583.9	1517.3	1488.8	1440.0	1434.1
40°	2868.1	1730.1	1499.5	1542.3	1554.2	1544.6	1503.0	1465.0	1491.1	1479.2	1479.2
42.5°	2971.6	1690.9	1450.7	1475.7	1485.2	1492.3	1462.6	1430.5	1462.6	1407.9	1390.1
45°	3135.7	1692.1	1406.7	1410.3	1438.8	1463.8	1443.6	1396.0	1379.4	1270.0	1248.6
47.5°	3377.1	1732.5	1371.0	1348.4	1399.6	1441.2	1412.7	1343.7	1270.0	1197.4	1184.3
50°	3658.9	1805.1	1338.9	1284.2	1347.3	1412.7	1391.3	1310.4	1234.3	1190.3	1182.0
52.5°	3971.6	1896.6	1299.7	1212.9	1283.0	1399.6	1396.0	1305.6	1201.0	1171.3	1164.1
55°	4358.1	1987.0	1250.9	1129.6	1226.0	1388.9	1382.9	1266.4	1193.9	1172.5	1170.1
57.5°	4807.5	2117.8	1180.8	1045.2	1160.6	1344.9	1331.8	1242.6	1170.1	1154.6	1153.4
60°	5531.7	2321.1	1080.9	967.9	1094.0	1267.6	1284.2	1202.2	1132.0	1128.5	1127.3
62.5°	6484.2	2606.5	977.4	888.3	1016.7	1167.7	1215.3	1147.5	1091.6	1109.4	1111.8
65°	7799.3	2846.7	870.4	820.5	931.1	1071.4	1149.9	1096.4	1046.4	1080.9	1080.9
67.5°	8656.7	2851.5	772.9	750.3	844.3	990.5	1080.9	1035.7	988.1	1046.4	1048.8
70°	8478.3	2498.3	692.1	676.6	759.8	903.7	1004.8	969.1	914.4	966.7	947.7
71°	8190.5	2302.1	660.0	648.1	726.5	862.1	969.1	939.4	884.7	919.2	908.5
72.5°	7731.6	1998.9	607.6	610.0	676.6	809.8	919.2	888.3	833.6	852.6	849.0
75°	6535.3	1745.6	519.6	530.3	581.5	720.6	819.3	795.5	739.6	739.6	736.1
77.5°	4085.8	1220.0	431.6	437.6	493.5	617.1	703.9	683.7	630.2	612.4	607.6
80°	1524.4	630.2	337.7	344.8	379.3	486.3	582.7	563.6	508.9	488.7	469.7
82.5°	576.7	316.3	248.5	242.6	279.4	371.0	456.6	434.0	391.2	342.5	328.2
85°	217.6	157.0	152.2	147.4	164.1	220.0	283.0	278.3	233.1	198.6	195.0
87.5°	57.1	51.1	59.5	44.0	46.4	41.6	42.8	17.8	8.3	3.6	2.4
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)