

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: P452760

Luminaire Tested: **GALN-SA3D-727-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452760
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-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19423 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

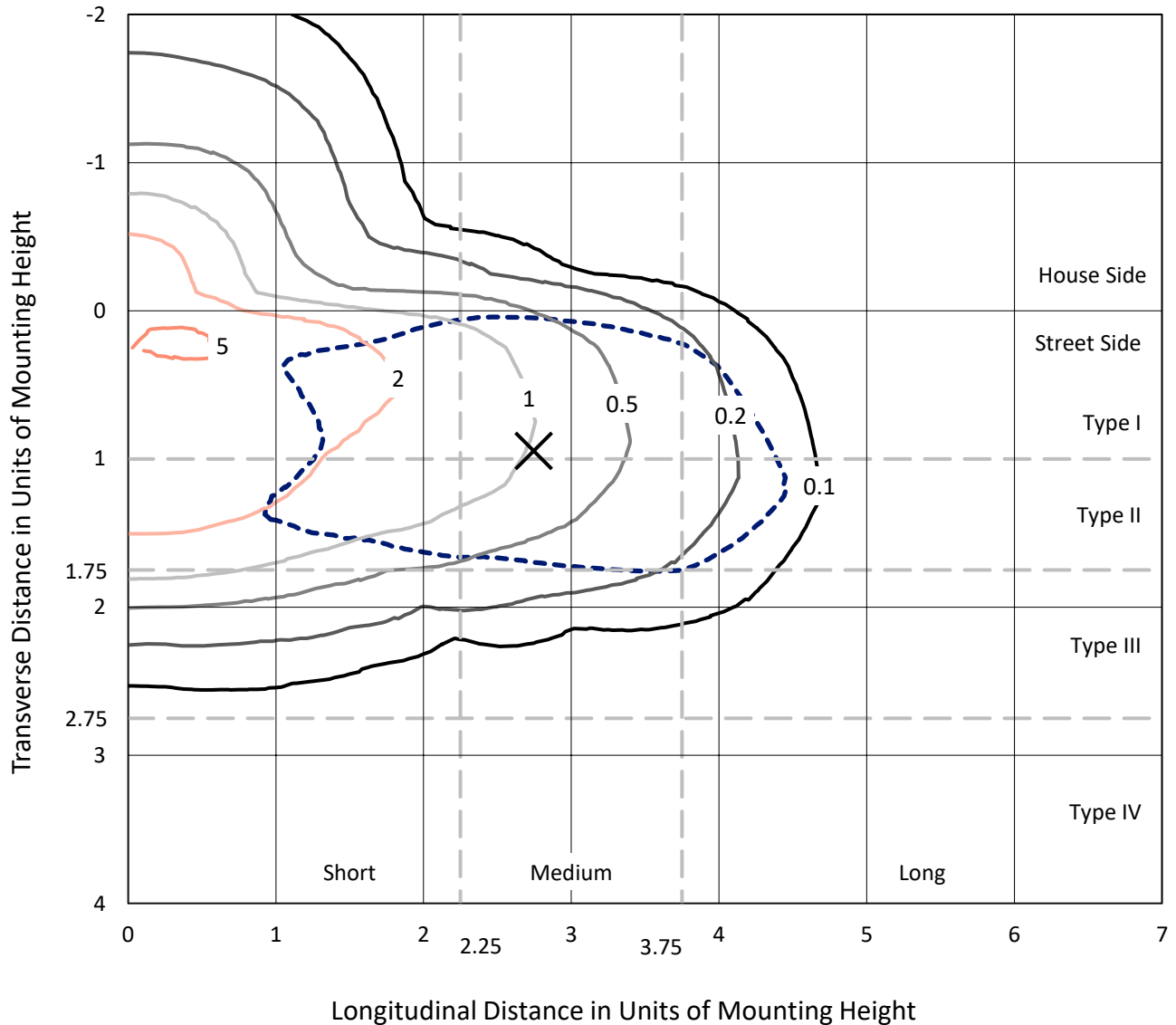
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

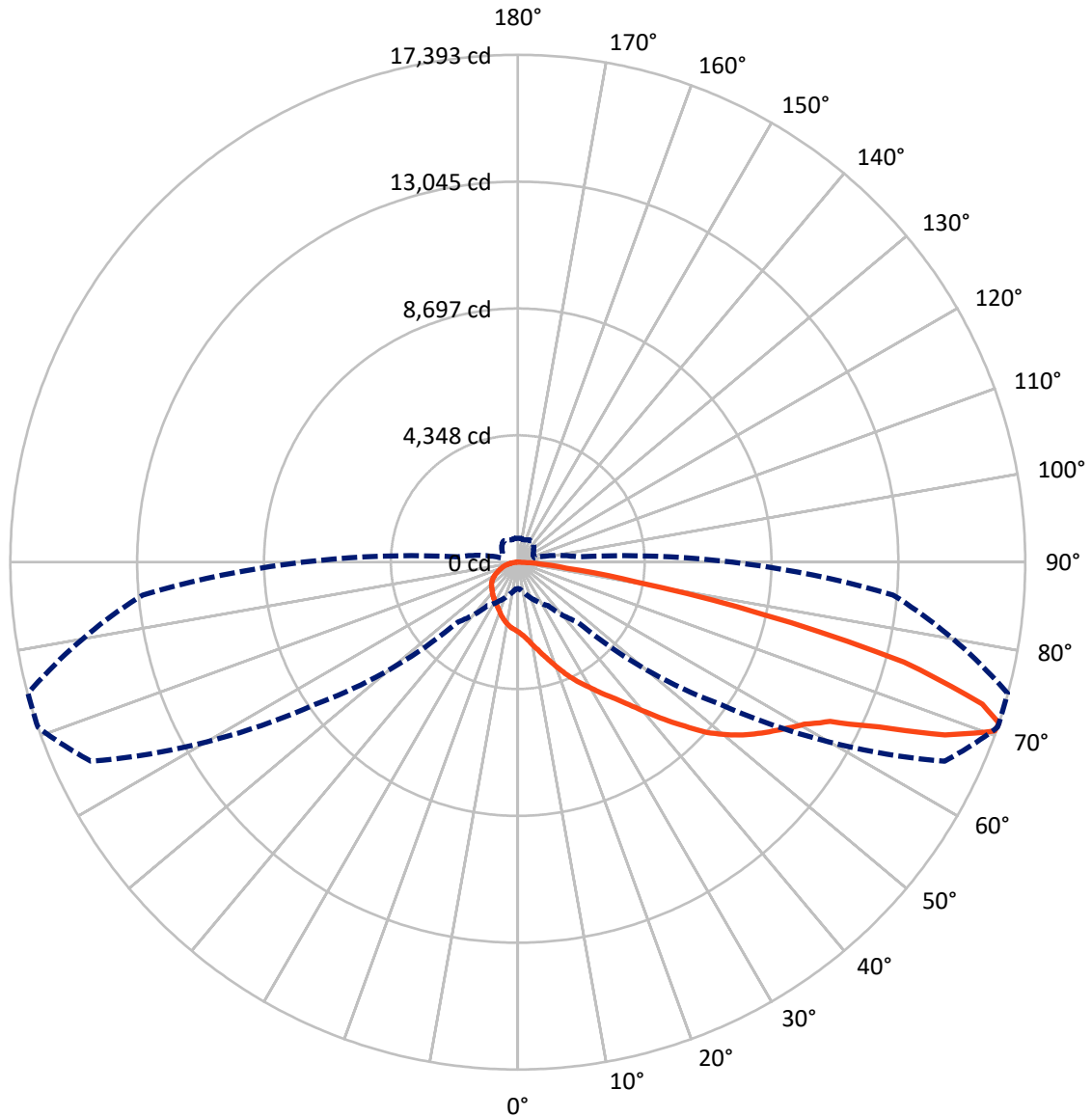
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	3493.2	0.0	3493.2
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	15929.8	0.0	15929.8
	% Fixture	82.0	0.0	82.0
Total	Lumens	19423.0	0.0	19423.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.4	1.2
10°-20°	777.6	4.0
20°-30°	1359.0	7.0
30°-40°	2021.3	10.4
40°-50°	2978.1	15.3
50°-60°	4169.4	21.5
60°-70°	4663.3	24.0
70°-80°	2848.5	14.7
80°-90°	366.4	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°	19423.0	100.0
0°-180°	19423.0	100.0

Coefficient of Utilization



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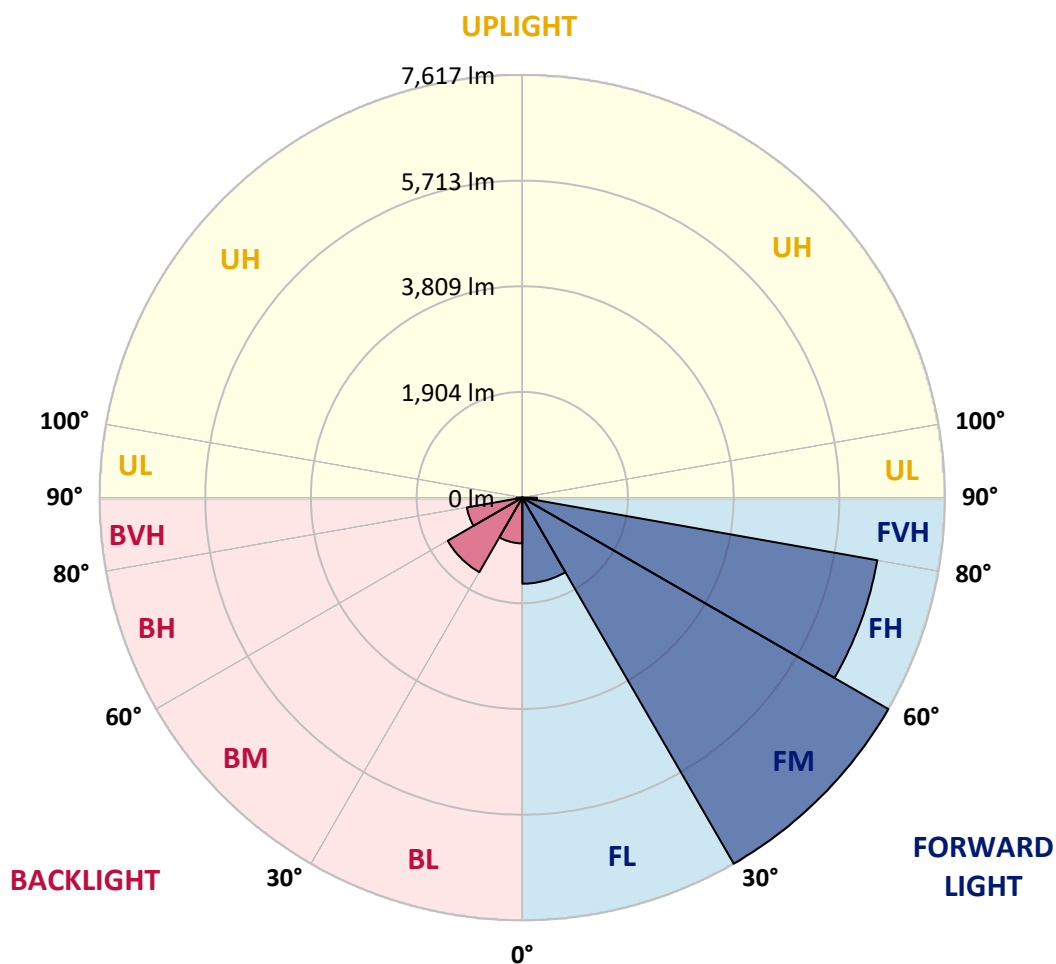
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1551.9	8.0			
FM	(30°-60°)	7617.3	39.2			
FH	(60°-80°)	6496.9	33.4			G3/7500
FVH	(80°-90°)	263.7	1.4			G3/500
BL	(0°-30°)	824.0	4.2	B2/1000		
BM	(30°-60°)	1551.5	8.0	B2/2500		
BH	(60°-80°)	1014.9	5.2	B3/2500		G3/2500
BVH	(80°-90°)	102.8	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°	2383.8	2383.8	2383.8	2383.8	2383.8	2383.8	2383.8	2383.8	2383.8	2383.8	2383.8
2.5°	2646.4	2633.6	2634.7	2616.5	2593.0	2567.4	2531.1	2499.1	2473.5	2458.5	2414.7
5°	2932.5	2919.7	2903.7	2864.2	2847.1	2784.1	2704.0	2631.5	2575.9	2545.0	2457.4
7.5°	3164.2	3161.0	3156.7	3134.3	3090.5	3003.0	2934.6	2808.7	2726.5	2667.8	2518.3
10°	3307.2	3312.5	3315.7	3320.0	3301.9	3256.0	3162.0	3003.0	2898.3	2823.6	2597.3
12.5°	3379.8	3385.1	3403.3	3442.8	3467.3	3462.0	3385.1	3229.3	3085.2	2986.9	2681.6
15°	3424.6	3433.2	3465.2	3517.5	3599.7	3652.0	3614.6	3470.5	3312.5	3196.2	2782.0
17.5°	3473.7	3483.3	3518.6	3593.3	3701.1	3814.3	3854.8	3731.0	3559.1	3420.4	2894.1
20°	3501.5	3514.3	3564.5	3662.7	3788.7	3953.1	4087.6	4022.4	3834.6	3680.8	3023.2
22.5°	3546.3	3557.0	3599.7	3704.3	3854.8	4060.9	4320.3	4306.4	4140.9	3942.4	3165.2
25°	3668.0	3685.1	3706.5	3769.4	3914.6	4170.8	4513.5	4609.6	4437.7	4215.7	3295.5
27.5°	3897.5	3911.4	3910.4	3918.9	4001.1	4265.8	4681.1	4909.6	4732.4	4492.2	3421.4
30°	4159.1	4164.4	4168.7	4149.5	4167.6	4363.0	4834.8	5206.3	5029.1	4776.1	3531.4
32.5°	4477.2	4487.9	4451.6	4402.5	4387.5	4507.1	4961.9	5503.1	5380.3	5064.4	3640.3
35°	4853.0	4880.7	4807.1	4720.6	4659.8	4714.2	5132.7	5806.3	5740.1	5432.7	3784.4
37.5°	5282.1	5316.3	5248.0	5078.2	4991.8	5006.7	5355.8	6181.0	6194.9	5852.2	3999.0
40°	5633.3	5678.2	5680.3	5440.1	5308.8	5325.9	5638.7	6584.5	6743.6	6371.0	4252.0
42.5°	5865.0	5908.8	5954.7	5813.8	5676.0	5773.2	5968.5	7022.2	7360.6	7000.8	4605.3
45°	6119.1	6158.6	6184.2	6120.1	6043.3	6295.2	6366.7	7487.6	8018.2	7704.3	4991.8
47.5°	6413.7	6457.5	6482.0	6421.2	6392.4	6753.2	6795.9	7922.1	8720.6	8387.6	5418.8
50°	6806.6	6839.7	6826.8	6788.4	6782.0	7104.4	7207.9	8328.9	9300.3	9123.1	5861.8
52.5°	7295.5	7335.0	7348.9	7294.4	7269.9	7355.3	7540.0	8699.3	9827.7	9755.1	6334.7
55°	7591.2	7654.2	7865.5	7950.9	8009.7	7679.8	7897.6	9108.1	10300.6	10421.2	6842.9
57.5°	7212.2	7293.4	7766.3	8193.3	8745.2	8491.1	8404.6	9535.2	10773.5	11067.1	7451.3
60°	6287.7	6305.9	6915.4	7702.2	8812.4	9534.1	9462.6	10214.1	11285.9	11718.3	8253.1
62.5°	4361.9	4400.4	5120.9	6376.3	7981.9	9909.9	11262.4	11386.3	12020.4	12692.9	9428.4
65°	2249.3	2199.1	2855.6	4007.5	6017.7	9017.4	12720.7	13541.6	13613.1	14217.3	11083.1
67.5°	1384.6	1407.0	1714.5	2340.0	3558.1	6553.6	12568.0	16175.2	15798.3	16088.7	12619.2
70°	1039.8	1067.5	1278.9	1601.3	2169.2	3747.0	10107.4	16813.6	17339.9	17265.1	13086.8
71°	904.2	933.0	1152.9	1457.2	1822.3	2891.9	8515.7	16145.3	17393.2	17380.4	12910.7
72.5°	770.8	788.9	960.8	1234.1	1536.2	2027.2	6397.7	14480.0	16651.3	17077.2	12281.9
75°	605.3	619.2	696.0	941.6	1209.5	1244.7	3433.2	10855.7	13676.1	14487.4	10224.8
77.5°	493.2	502.8	542.3	699.2	933.0	881.8	1800.9	7066.0	8568.0	9384.6	6023.0
80°	391.8	402.5	425.9	474.0	699.2	628.8	859.4	3580.5	4138.8	4130.3	2404.1
82.5°	304.2	307.4	335.2	348.0	478.3	446.2	465.4	1515.9	1679.2	1734.7	867.9
85°	192.2	201.8	296.8	266.9	286.1	261.5	229.5	602.1	741.9	731.3	346.9
87.5°	58.7	61.9	100.3	113.2	127.0	114.2	84.3	177.2	216.7	234.9	86.5
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°	2383.8	2383.8	2383.8	2383.8	2383.8	2383.8	2383.8	2383.8	2383.8	2383.8	2383.8
2.5°	2397.7	2385.9	2344.3	2310.1	2278.1	2242.9	2213.0	2204.4	2197.0	2193.8	2192.7
5°	2420.1	2384.9	2302.7	2235.4	2182.0	2132.9	2102.0	2088.1	2074.2	2074.2	2078.5
7.5°	2452.1	2388.1	2261.0	2160.7	2093.4	2047.5	2025.1	2023.0	2026.2	2029.4	2030.4
10°	2487.3	2385.9	2200.2	2075.3	2015.5	1994.1	1995.2	2013.4	2030.4	2043.2	2045.4
12.5°	2521.5	2373.1	2128.7	1995.2	1956.8	1961.0	1990.9	2031.5	2064.6	2082.7	2083.8
15°	2559.9	2352.8	2042.2	1919.4	1906.6	1939.7	1995.2	2057.1	2107.3	2137.2	2140.4
17.5°	2592.0	2318.7	1951.4	1845.8	1861.8	1922.6	1999.5	2079.5	2140.4	2177.8	2184.2
20°	2628.3	2274.9	1857.5	1775.3	1821.2	1903.4	1990.9	2077.4	2140.4	2176.7	2185.2
22.5°	2657.1	2213.0	1767.8	1717.7	1784.9	1879.9	1962.1	2031.5	2082.7	2102.0	2114.8
25°	2668.8	2135.1	1683.5	1670.7	1756.1	1841.5	1897.0	1936.5	1952.5	1950.4	1955.7
27.5°	2662.4	2045.4	1610.9	1633.3	1719.8	1781.7	1809.5	1806.3	1777.4	1750.7	1763.6
30°	2635.7	1938.6	1550.1	1594.9	1672.8	1707.0	1702.7	1661.1	1606.6	1556.5	1559.7
32.5°	2587.7	1823.3	1493.5	1551.1	1606.6	1621.6	1592.8	1538.3	1460.4	1395.3	1385.7
35°	2547.1	1713.4	1443.3	1500.9	1540.4	1533.0	1505.2	1434.8	1364.3	1306.7	1297.0
37.5°	2540.7	1619.4	1395.3	1444.4	1466.8	1456.1	1421.9	1362.2	1336.5	1292.8	1287.4
40°	2574.9	1553.3	1346.2	1384.6	1395.3	1386.7	1349.4	1315.2	1338.7	1328.0	1328.0
42.5°	2667.8	1518.0	1302.4	1324.8	1333.3	1339.7	1313.1	1284.2	1313.1	1264.0	1247.9
45°	2815.1	1519.1	1262.9	1266.1	1291.7	1314.1	1296.0	1253.3	1238.3	1140.1	1120.9
47.5°	3031.8	1555.4	1230.9	1210.6	1256.5	1293.8	1268.2	1206.3	1140.1	1075.0	1063.3
50°	3284.8	1620.5	1202.0	1152.9	1209.5	1268.2	1249.0	1176.4	1108.1	1068.6	1061.1
52.5°	3565.5	1702.7	1166.8	1088.9	1151.9	1256.5	1253.3	1172.1	1078.2	1051.5	1045.1
55°	3912.5	1783.8	1123.0	1014.2	1100.6	1246.9	1241.5	1136.9	1071.8	1052.6	1050.4
57.5°	4316.0	1901.3	1060.1	938.4	1041.9	1207.4	1195.6	1115.6	1050.4	1036.6	1035.5
60°	4966.1	2083.8	970.4	869.0	982.1	1138.0	1152.9	1079.3	1016.3	1013.1	1012.0
62.5°	5821.2	2340.0	877.5	797.4	912.7	1048.3	1091.0	1030.2	980.0	996.0	998.1
65°	7001.9	2555.7	781.4	736.6	835.9	961.8	1032.3	984.3	939.4	970.4	970.4
67.5°	7771.6	2559.9	693.9	673.6	757.9	889.3	970.4	929.8	887.1	939.4	941.6
70°	7611.5	2242.9	621.3	607.4	682.2	811.3	902.1	870.0	820.9	867.9	850.8
71°	7353.1	2066.7	592.5	581.8	652.3	774.0	870.0	843.3	794.2	825.2	815.6
72.5°	6941.1	1794.5	545.5	547.6	607.4	727.0	825.2	797.4	748.3	765.4	762.2
75°	5867.1	1567.1	466.5	476.1	522.0	646.9	735.5	714.2	664.0	664.0	660.8
77.5°	3668.0	1095.3	387.5	392.9	443.0	554.0	632.0	613.8	565.8	549.8	545.5
80°	1368.6	565.8	303.2	309.6	340.5	436.6	523.1	506.0	456.9	438.8	421.7
82.5°	517.8	284.0	223.1	217.8	250.9	333.1	409.9	389.6	351.2	307.4	294.6
85°	195.4	140.9	136.6	132.4	147.3	197.5	254.1	249.8	209.2	178.3	175.1
87.5°	51.2	45.9	53.4	39.5	41.6	37.4	38.4	16.0	7.5	3.2	2.1
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)