

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: STREETWORKS

Report Number: P476714

Luminaire Tested: **IFLD-S-SA3B-827-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476714
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-827-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

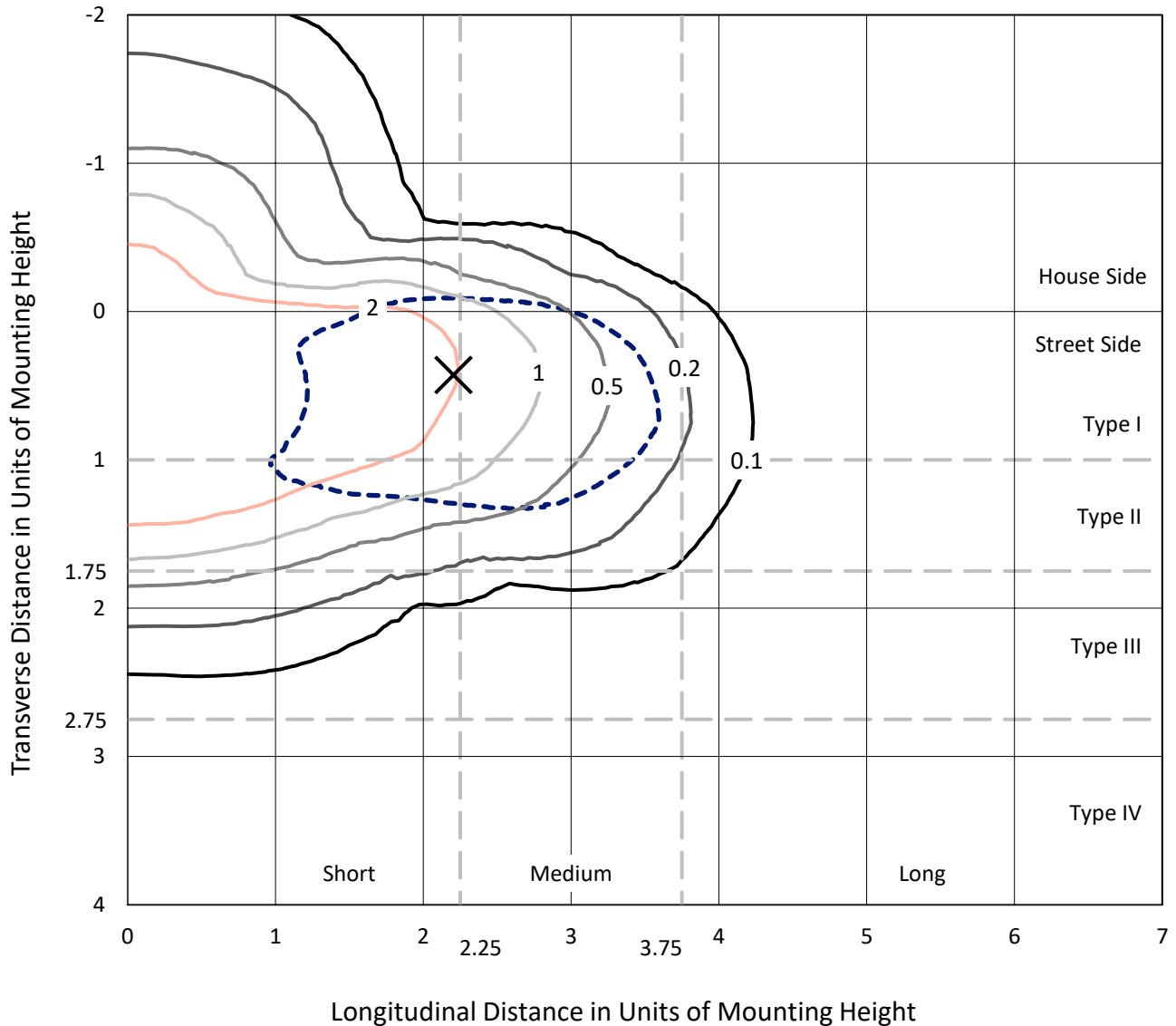
Lumens per Lamp: N/A
Luminaire Lumens: 12493.3 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 122.4
Input Voltage (V): 120
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

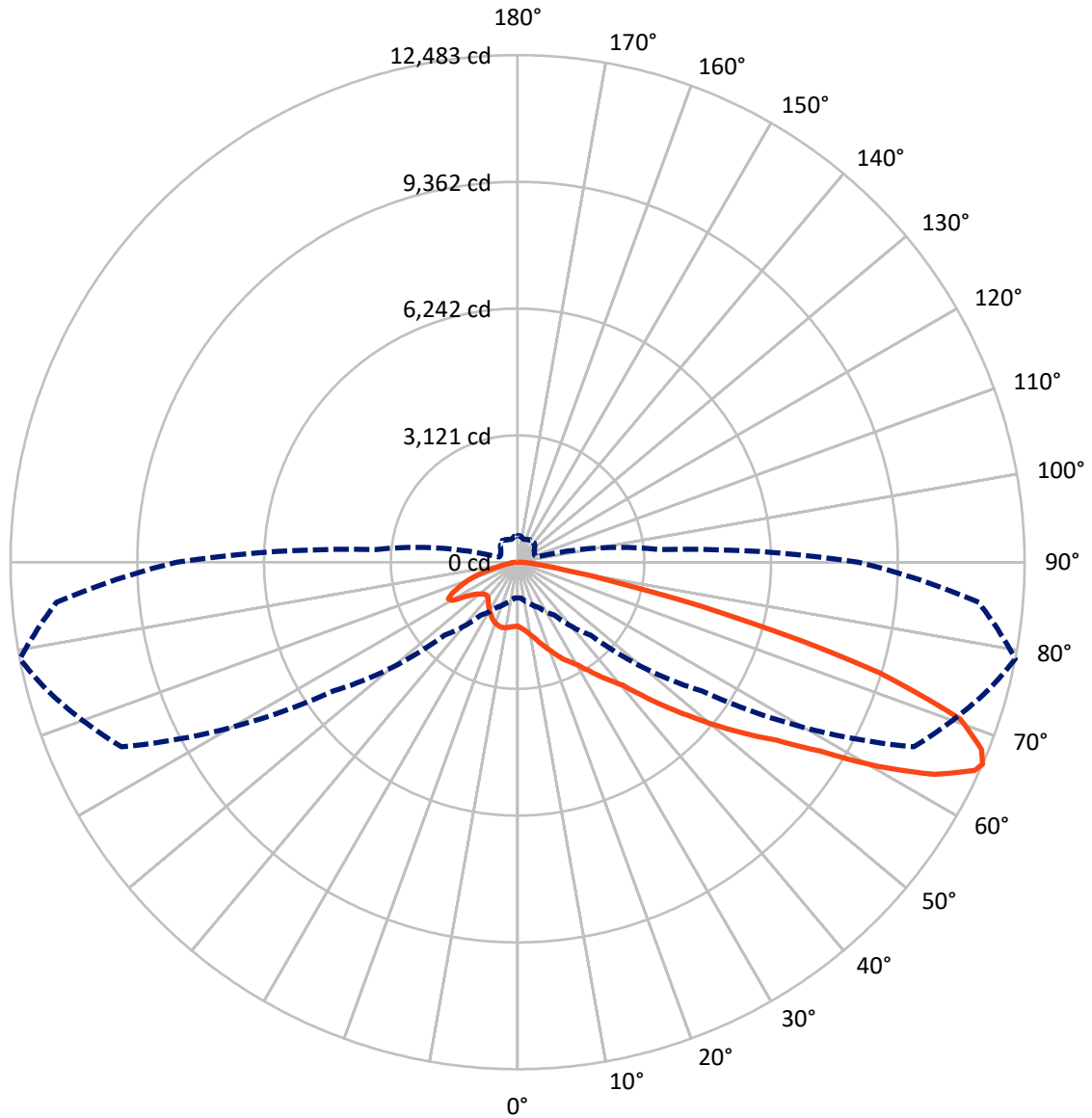
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2522.8	0.0	2522.8
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	9970.4	0.0	9970.4
	% Fixture	79.8	0.0	79.8
Total	Lumens	12493.3	0.0	12493.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.1	1.2
10°-20°	479.0	3.8
20°-30°	822.2	6.6
30°-40°	1270.2	10.2
40°-50°	2034.5	16.3
50°-60°	3037.6	24.3
60°-70°	3121.2	25.0
70°-80°	1383.6	11.1
80°-90°	189.8	1.5
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°	12493.3	100.0
0°-180°	12493.3	100.0

Coefficient of Utilization



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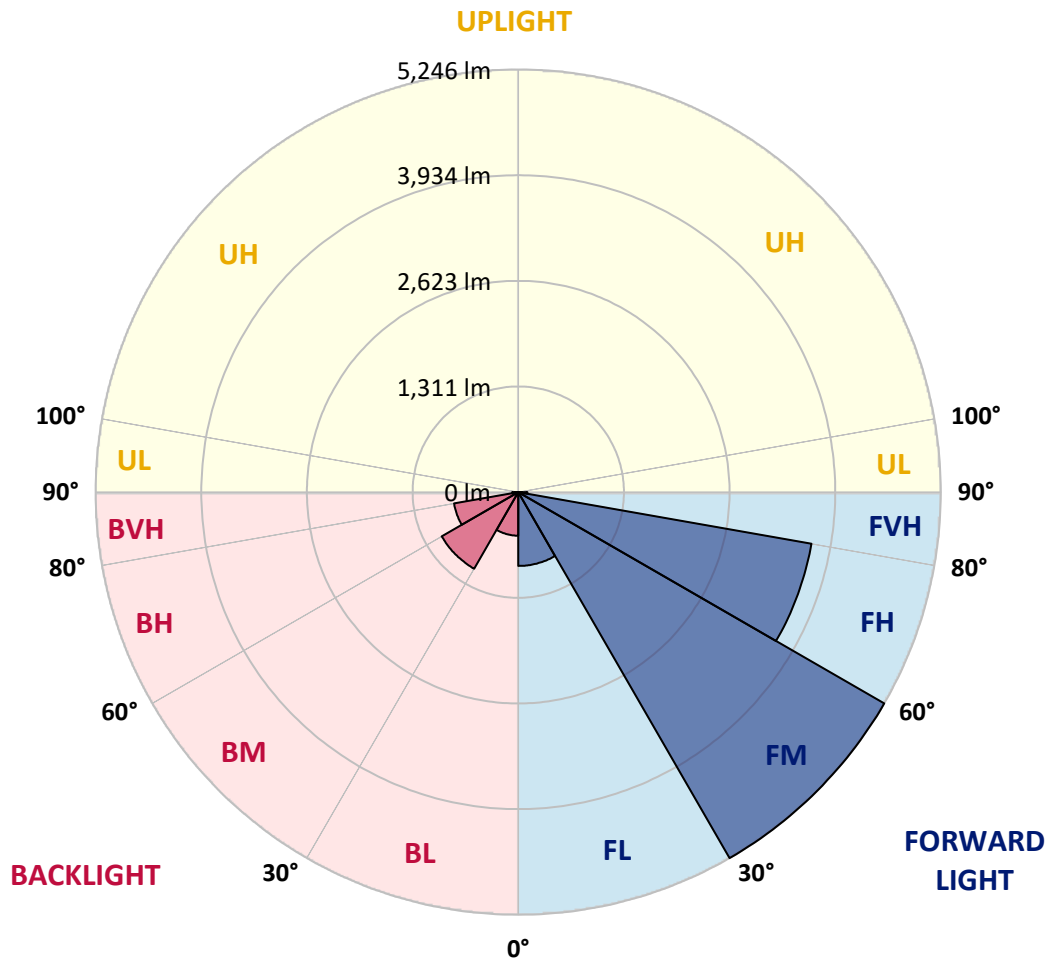
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	915.8	7.3			
FM (30°-60°)	5245.5	42.0			
FH (60°-80°)	3695.2	29.6			G2/5000
FVH (80°-90°)	113.9	0.9			G2/225
BL (0°-30°)	540.5	4.3	B2/1000		
BM (30°-60°)	1096.8	8.8	B2/2500		
BH (60°-80°)	809.5	6.5	B2/1000		G2/1000
BVH (80°-90°)	76.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1577.6	1577.6	1577.6	1577.6	1577.6	1577.6	1577.6	1577.6	1577.6	1577.6	1577.6
2.5°	1677.9	1679.2	1679.2	1673.7	1675.1	1679.2	1664.1	1631.1	1631.1	1625.6	1616.0
5°	1780.9	1774.1	1764.4	1765.8	1760.3	1760.3	1743.8	1712.2	1684.7	1673.7	1644.9
7.5°	1794.7	1801.5	1800.2	1816.7	1824.9	1824.9	1833.1	1807.0	1765.8	1739.7	1710.8
10°	1822.2	1804.3	1802.9	1841.4	1853.8	1882.6	1915.6	1901.9	1867.5	1830.4	1791.9
12.5°	1838.6	1849.6	1849.6	1868.9	1897.7	1940.3	1998.1	2024.2	1970.6	1932.1	1873.0
15°	1863.4	1848.3	1892.2	1908.7	1963.7	1993.9	2076.4	2143.7	2108.0	2061.3	1967.8
17.5°	1874.4	1864.8	1889.5	1919.7	2013.2	2058.5	2158.8	2252.3	2222.0	2191.8	2095.6
20°	1930.7	1929.3	1940.3	1965.1	2032.4	2121.7	2246.8	2375.9	2386.9	2332.0	2201.4
22.5°	2068.1	2050.3	2050.3	2040.6	2069.5	2161.6	2330.6	2509.2	2558.7	2494.1	2321.0
25°	2194.6	2219.3	2204.2	2160.2	2149.2	2197.3	2391.1	2650.8	2716.7	2656.3	2483.1
27.5°	2356.7	2365.0	2391.1	2332.0	2256.4	2271.5	2457.0	2730.5	2866.5	2785.5	2575.2
30°	2590.3	2575.2	2569.7	2503.7	2404.8	2384.2	2532.6	2847.3	3063.0	2949.0	2683.8
32.5°	2748.4	2785.5	2784.1	2693.4	2573.8	2528.5	2626.0	2957.2	3273.3	3167.5	2884.4
35°	3061.7	3100.1	3069.9	2936.6	2796.4	2705.8	2760.7	3100.1	3513.8	3431.3	3054.8
37.5°	3461.5	3552.2	3487.7	3241.7	3043.8	2944.9	2947.6	3255.4	3759.7	3692.4	3237.6
40°	3737.8	3860.1	3770.7	3539.9	3329.6	3236.2	3199.1	3439.6	4053.8	3982.4	3523.4
42.5°	4079.9	4181.6	4134.9	3906.8	3660.8	3581.1	3506.9	3747.4	4503.2	4470.2	3890.3
45°	4453.7	4501.8	4486.7	4342.4	4068.9	4041.4	3877.9	4152.8	5032.2	5046.0	4349.3
47.5°	4801.4	4827.5	4856.3	4751.9	4581.5	4604.9	4305.3	4587.0	5546.2	5636.9	4860.5
50°	4890.7	4980.0	5047.3	5117.4	5154.5	5312.6	4776.6	5120.2	6137.1	6313.0	5429.4
52.5°	4800.0	4793.1	4997.9	5217.7	5588.8	5919.9	5418.4	5782.5	6659.3	7006.9	5950.2
55°	4387.7	4374.0	4703.8	4995.1	5719.3	6258.0	6334.9	6664.7	7290.0	7742.1	6655.1
57.5°	3666.3	3581.1	3941.1	4419.3	5436.2	6295.1	7255.6	7974.3	8260.2	8775.5	7731.1
60°	2463.9	2428.2	2773.1	3343.4	4413.9	5768.8	7806.7	9613.7	9627.5	10207.4	9400.7
62.5°	1517.1	1524.0	1745.2	2172.6	3090.5	4573.3	7569.0	10923.3	10926.1	11507.3	10774.9
65°	992.2	996.3	1174.9	1411.3	1930.7	3101.5	6259.4	11026.4	11828.9	12368.9	11404.3
66°	883.6	885.0	1038.9	1231.3	1599.5	2538.1	5528.3	10758.4	12032.3	12483.0	11396.0
67.5°	744.8	762.7	886.3	1034.8	1247.8	1823.5	4386.4	9983.4	11927.8	12323.6	11137.7
70°	582.7	592.3	689.8	841.0	935.8	1055.4	2606.8	8137.9	10917.8	11559.6	10197.8
72.5°	467.2	475.5	549.7	683.0	759.9	695.3	1419.5	5904.8	8624.3	9308.7	8021.1
75°	394.4	395.8	431.5	537.3	625.2	522.2	755.8	3790.0	5533.8	5852.6	4914.0
77.5°	318.8	324.3	349.0	409.5	502.9	410.9	450.7	2123.1	2778.6	2801.9	2271.5
80°	259.7	262.5	277.6	298.2	383.4	303.7	305.1	1036.1	1191.4	1163.9	923.4
82.5°	204.8	207.5	225.4	221.2	281.7	217.1	189.6	498.8	548.3	537.3	424.6
85°	115.4	115.4	177.3	177.3	178.6	137.4	115.4	235.0	290.0	270.7	199.3
87.5°	37.1	38.5	53.6	56.3	89.3	61.8	56.3	87.9	137.4	120.9	71.5
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°	1577.6	1577.6	1577.6	1577.6	1577.6	1577.6	1577.6	1577.6	1577.6	1577.6	1577.6
2.5°	1610.5	1588.5	1578.9	1547.3	1539.1	1518.5	1508.8	1496.5	1492.4	1474.5	1491.0
5°	1622.9	1616.0	1577.6	1537.7	1507.5	1493.7	1473.1	1445.6	1442.9	1418.1	1415.4
7.5°	1675.1	1651.8	1584.4	1541.8	1481.4	1447.0	1401.7	1387.9	1370.1	1361.8	1379.7
10°	1756.2	1697.1	1596.8	1489.6	1415.4	1374.2	1341.2	1331.6	1332.9	1327.5	1319.2
12.5°	1813.9	1757.6	1576.2	1445.6	1349.4	1309.6	1306.8	1316.5	1331.6	1324.7	1334.3
15°	1896.4	1790.6	1561.1	1372.8	1295.8	1284.9	1283.5	1312.3	1311.0	1311.0	1309.6
17.5°	1973.3	1823.5	1506.1	1309.6	1239.5	1247.8	1257.4	1256.0	1269.7	1275.2	1284.9
20°	2070.9	1862.0	1429.1	1246.4	1196.9	1194.2	1192.8	1194.2	1207.9	1216.1	1209.3
22.5°	2156.1	1870.3	1364.6	1185.9	1146.1	1135.1	1117.2	1135.1	1128.2	1130.9	1139.2
25°	2230.3	1871.6	1272.5	1140.6	1095.2	1070.5	1056.7	1055.4	1043.0	1041.6	1041.6
27.5°	2292.1	1824.9	1191.4	1077.4	1034.8	1011.4	1010.0	994.9	963.3	942.7	945.4
30°	2340.2	1789.2	1135.1	1022.4	981.2	977.0	964.7	930.3	889.1	863.0	863.0
32.5°	2425.4	1717.7	1058.1	966.0	945.4	939.9	911.1	880.8	842.4	817.6	813.5
35°	2488.6	1651.8	1007.3	917.9	908.3	897.3	872.6	839.6	828.6	823.1	827.3
37.5°	2560.1	1577.6	945.4	876.7	886.3	865.7	836.9	821.8	860.2	850.6	854.7
40°	2674.1	1525.3	885.0	852.0	861.6	838.2	801.1	795.6	843.7	809.4	801.1
42.5°	2883.0	1524.0	847.9	814.9	821.8	803.9	770.9	768.2	787.4	746.2	733.8
45°	3142.7	1572.1	820.4	787.4	781.9	779.2	768.2	755.8	739.3	685.7	672.0
47.5°	3453.3	1650.4	814.9	746.2	753.0	776.4	762.7	731.1	688.5	654.1	647.2
50°	3829.8	1812.5	801.1	715.9	728.3	765.4	754.4	710.4	672.0	650.0	645.9
52.5°	4246.2	2017.3	783.3	669.2	696.7	755.8	761.3	720.1	663.7	644.5	641.7
55°	4736.8	2319.6	762.7	618.4	659.6	746.2	761.3	692.6	652.7	652.7	650.0
57.5°	5705.6	2863.8	720.1	571.7	626.6	728.3	739.3	694.0	654.1	654.1	648.6
60°	7126.5	3713.0	639.0	535.9	595.0	703.6	722.8	673.3	639.0	647.2	645.9
62.5°	8238.2	3971.4	570.3	501.6	563.4	658.2	700.8	651.4	621.1	651.4	654.1
65°	8475.9	3710.3	500.2	464.5	519.4	614.3	669.2	619.8	595.0	654.1	656.9
66°	8390.7	3506.9	475.5	453.5	500.2	592.3	650.0	608.8	581.3	651.4	652.7
67.5°	8011.4	3201.8	448.0	430.1	474.1	560.7	628.0	593.6	559.3	643.1	630.7
70°	7186.9	2715.4	401.3	388.9	437.0	508.4	577.2	555.2	524.9	592.3	570.3
72.5°	5535.2	2169.8	351.8	353.2	394.4	454.9	526.3	511.2	485.1	519.4	505.7
75°	3370.9	1386.5	306.4	309.2	343.5	404.0	478.2	467.2	435.6	454.9	448.0
77.5°	1493.7	687.1	258.3	263.8	291.3	355.9	416.4	398.5	365.5	369.7	366.9
80°	579.9	325.7	210.2	217.1	235.0	284.5	344.9	328.4	299.6	294.1	291.3
82.5°	279.0	181.4	162.2	164.9	171.8	226.7	296.8	276.2	237.7	213.0	213.0
85°	140.2	112.7	114.1	104.4	114.1	153.9	200.6	167.6	138.8	123.7	126.4
87.5°	56.3	56.3	56.3	48.1	50.8	72.8	93.4	63.2	57.7	34.4	34.4
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)