

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: P451927

Luminaire Tested: **GALN-SA2D-750-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-750-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15522 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

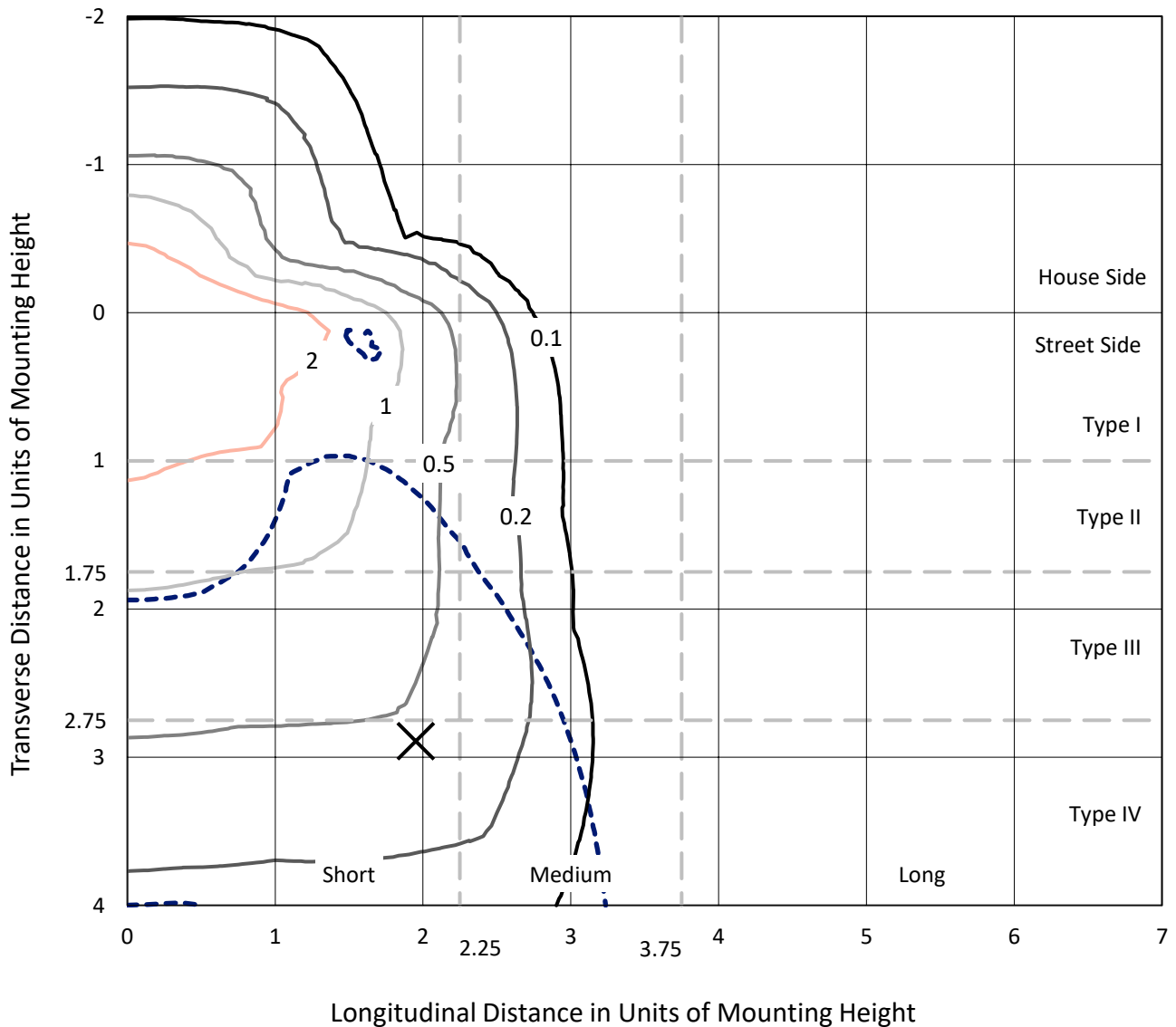
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

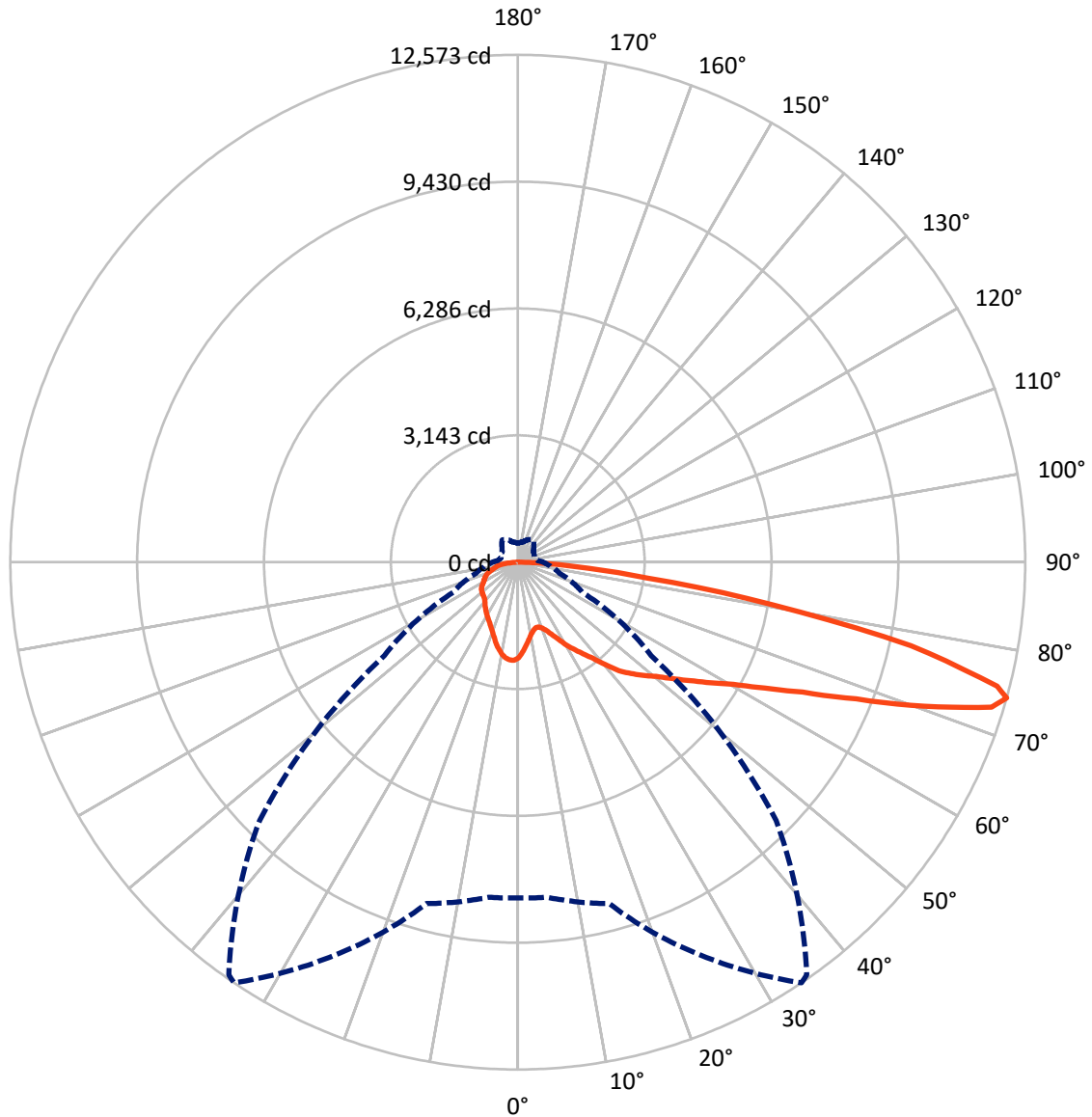
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3303.2	0.0	3303.2
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	12218.8	0.0	12218.8
	% Fixture	78.7	0.0	78.7
Total	Lumens	15522.0	0.0	15522.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.5	1.4
10°-20°	590.0	3.8
20°-30°	972.8	6.3
30°-40°	1457.1	9.4
40°-50°	2118.2	13.6
50°-60°	2958.7	19.1
60°-70°	3704.1	23.9
70°-80°	3063.0	19.7
80°-90°	442.6	2.9
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°	15522.0	100.0
0°-180°	15522.0	100.0

Coefficient of Utilization



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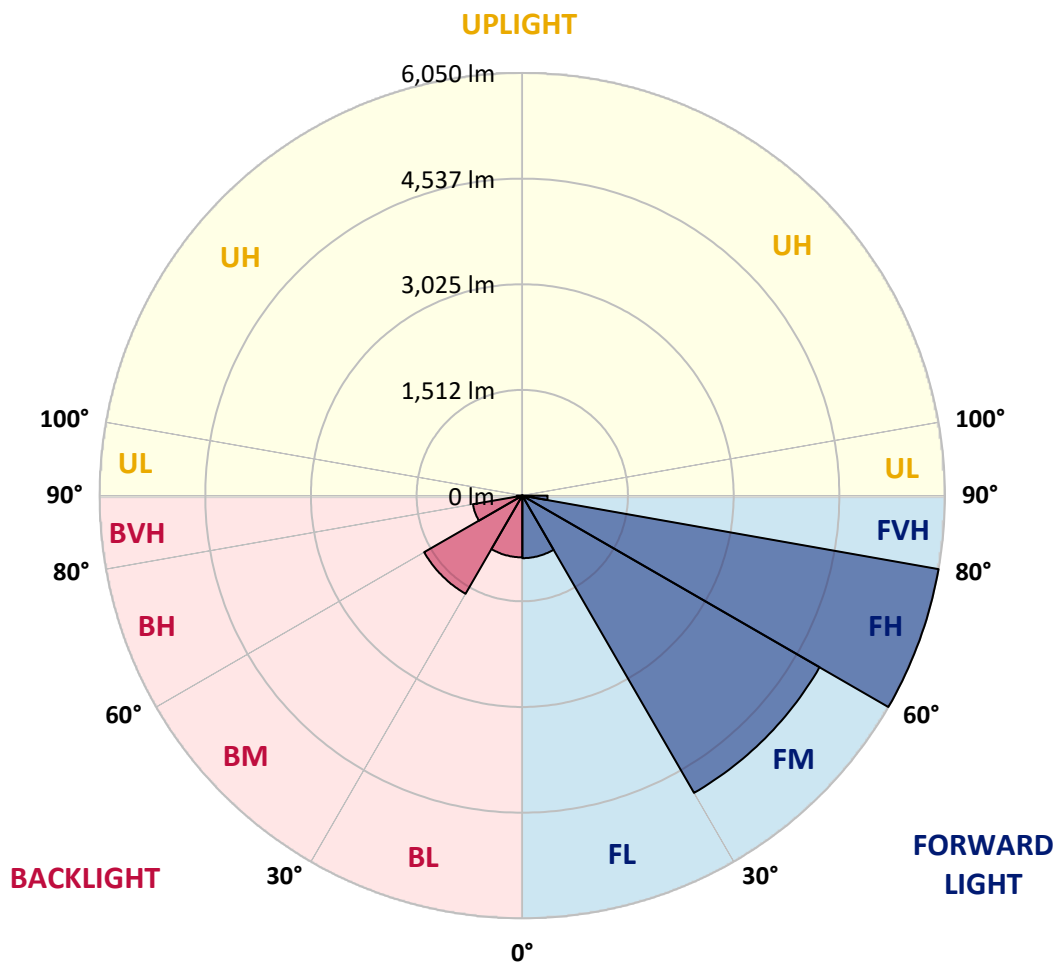
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	894.8	5.8			
FM (30°-60°)	4911.8	31.6			
FH (60°-80°)	6049.7	39.0			G3/7500
FVH (80°-90°)	362.6	2.3			G3/500
BL (0°-30°)	883.5	5.7	B2/1000		
BM (30°-60°)	1622.2	10.5	B2/2500		
BH (60°-80°)	717.4	4.6	B2/1000		G2/1000
BVH (80°-90°)	80.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2369.9	2369.9	2369.9	2369.9	2369.9	2369.9	2369.9	2369.9	2369.9	2369.9	2369.9
2.5°	2190.2	2201.4	2207.4	2228.9	2234.0	2240.9	2259.0	2283.1	2314.0	2341.5	2365.6
5°	2007.9	2025.1	2035.4	2054.3	2091.3	2094.7	2142.9	2197.9	2260.7	2319.2	2367.3
7.5°	1835.0	1854.0	1862.6	1897.0	1946.0	1953.7	2024.2	2111.1	2216.0	2304.5	2378.5
10°	1705.2	1714.7	1733.6	1759.4	1817.8	1823.0	1915.0	2031.1	2167.0	2297.7	2397.4
12.5°	1634.7	1639.8	1644.1	1671.7	1729.3	1737.0	1833.3	1964.9	2128.3	2302.8	2428.4
15°	1645.0	1646.7	1627.8	1633.0	1679.4	1690.6	1786.0	1921.0	2104.2	2315.7	2474.8
17.5°	1731.9	1725.8	1679.4	1655.3	1688.0	1693.2	1776.6	1903.8	2093.0	2339.8	2523.0
20°	1868.6	1860.0	1780.0	1726.7	1745.6	1749.9	1807.5	1916.7	2104.2	2379.4	2597.8
22.5°	2038.8	2035.4	1914.2	1849.7	1848.8	1848.8	1878.9	1963.2	2137.7	2433.5	2676.0
25°	2277.0	2259.0	2100.8	2017.3	1994.1	1992.4	1989.0	2039.7	2180.7	2491.1	2768.9
27.5°	2521.2	2490.3	2349.3	2221.1	2171.3	2165.2	2142.9	2148.0	2235.8	2556.5	2874.7
30°	2740.5	2720.7	2588.3	2446.4	2387.1	2373.3	2311.4	2283.1	2327.8	2674.3	3043.2
32.5°	2908.2	2896.2	2793.0	2664.0	2576.3	2573.7	2483.4	2460.2	2471.4	2817.1	3235.8
35°	3044.1	3048.4	2995.9	2884.1	2783.5	2768.9	2708.7	2679.5	2646.8	3023.4	3478.3
37.5°	3229.8	3239.3	3235.8	3139.5	3016.6	3020.0	3006.2	2958.1	2871.2	3253.9	3747.5
40°	3434.5	3441.3	3440.5	3403.5	3339.0	3342.5	3337.3	3282.3	3152.4	3547.1	4046.7
42.5°	3717.4	3684.7	3599.6	3636.5	3674.4	3690.7	3726.0	3673.5	3495.5	3860.1	4327.9
45°	4033.8	3971.9	3779.3	3796.5	3936.7	3967.6	4161.9	4089.7	3867.9	4219.6	4659.0
47.5°	4233.3	4172.3	4009.7	4006.3	4192.0	4222.1	4566.1	4539.4	4206.7	4607.4	5063.1
50°	4411.3	4402.7	4219.6	4263.4	4444.9	4489.6	5006.4	4981.4	4544.6	5064.8	5503.4
52.5°	4675.3	4605.7	4459.5	4549.8	4789.7	4848.2	5443.2	5370.1	4855.0	5469.0	5930.8
55°	4794.0	4777.6	4769.0	4847.3	5176.6	5218.8	5868.0	5700.3	5119.9	5811.2	6255.8
57.5°	5111.3	5081.2	5166.3	5219.6	5632.4	5696.9	6311.7	6045.1	5352.1	6083.0	6414.0
60°	5522.3	5506.0	5584.2	5680.5	6141.5	6239.5	6817.3	6339.2	5538.7	6219.7	6327.2
62.5°	6136.3	6134.6	6120.0	6326.3	6862.9	6953.2	7397.8	6625.6	5567.9	6117.4	5878.3
65°	7016.8	6985.9	6858.6	7083.9	7760.7	7866.4	8002.3	6785.5	5391.6	5592.0	4949.6
67.5°	7937.8	7936.1	7832.9	8125.3	9049.7	9158.9	8758.1	6750.3	4902.3	4530.0	3515.3
70°	8701.4	8664.4	8796.0	9575.1	10696.4	10822.8	9419.4	6334.9	3904.8	2991.6	2088.7
72.5°	8884.6	8886.3	9159.7	10692.9	12277.7	12297.5	9657.6	5134.5	2613.3	1650.2	1044.8
74°	8320.5	8335.1	8759.0	10748.8	12572.7	12483.3	9048.8	4035.5	1767.1	1077.5	753.3
75°	7594.7	7502.7	8115.8	10376.5	12266.6	12170.3	8335.9	3238.4	1348.3	860.8	659.5
77.5°	4060.5	4154.2	5100.1	7743.5	9965.5	9854.5	5652.2	1553.0	728.3	599.4	474.7
80°	1445.5	1594.3	2240.9	4051.9	6389.1	6423.5	2697.5	712.0	512.5	442.0	335.4
82.5°	589.9	606.2	962.2	1798.1	3244.4	3275.4	1101.5	423.1	366.3	304.4	200.4
85°	230.5	237.3	425.7	808.3	1384.4	1474.7	380.9	223.6	225.3	174.6	102.3
87.5°	77.4	87.7	174.6	269.2	470.4	460.9	110.9	66.2	80.8	75.7	31.8
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°	2369.9	2369.9	2369.9	2369.9	2369.9	2369.9	2369.9	2369.9	2369.9	2369.9	2369.9
2.5°	2377.6	2394.0	2405.2	2417.2	2428.4	2431.8	2429.2	2437.0	2437.8	2438.7	2439.6
5°	2391.4	2413.8	2435.3	2447.3	2452.5	2448.2	2433.5	2425.8	2418.9	2413.8	2415.5
7.5°	2410.3	2442.1	2461.9	2467.1	2453.3	2433.5	2397.4	2369.0	2351.0	2338.9	2338.1
10°	2439.6	2470.5	2486.8	2472.2	2434.4	2386.2	2329.5	2276.2	2235.8	2223.7	2222.9
12.5°	2476.5	2511.8	2510.9	2467.9	2401.7	2315.7	2223.7	2161.8	2106.8	2079.3	2090.4
15°	2524.7	2551.3	2526.4	2449.0	2344.1	2226.3	2112.8	2028.5	1966.6	1937.4	1939.1
17.5°	2580.6	2603.8	2537.6	2415.5	2263.3	2111.9	1980.4	1900.4	1851.4	1829.9	1828.2
20°	2650.2	2657.1	2537.6	2357.0	2159.2	1978.6	1853.1	1797.2	1769.7	1758.5	1761.9
22.5°	2725.0	2711.3	2523.8	2274.5	2022.5	1839.3	1755.1	1730.1	1716.4	1714.7	1716.4
25°	2809.3	2770.6	2495.4	2162.7	1879.8	1719.0	1669.9	1674.2	1676.8	1676.8	1682.8
27.5°	2912.5	2835.1	2448.2	2021.6	1712.9	1607.2	1593.4	1623.5	1637.3	1639.8	1644.1
30°	3048.4	2905.6	2369.9	1845.4	1571.0	1506.6	1530.6	1571.0	1586.5	1596.0	1594.3
32.5°	3210.0	2983.0	2264.1	1669.1	1456.7	1436.0	1465.3	1506.6	1523.8	1528.9	1522.0
35°	3400.1	3070.7	2124.8	1504.0	1356.9	1369.0	1403.4	1416.3	1431.7	1431.7	1435.2
37.5°	3604.7	3141.2	1954.6	1352.6	1279.5	1323.4	1348.3	1336.3	1329.4	1320.8	1325.1
40°	3812.8	3193.7	1733.6	1203.0	1202.1	1276.1	1283.0	1248.6	1221.1	1212.5	1208.2
42.5°	3994.3	3226.4	1534.1	1086.9	1129.1	1229.7	1234.8	1179.8	1135.9	1110.1	1101.5
45°	4208.4	3264.2	1338.9	990.6	1061.1	1192.7	1205.6	1131.6	1067.1	1013.0	999.2
47.5°	4501.6	3350.2	1185.0	915.8	1012.1	1169.5	1187.5	1092.1	1007.0	936.4	925.3
50°	4832.7	3468.0	1065.4	865.1	974.3	1148.8	1171.2	1051.7	951.1	872.8	864.2
52.5°	5136.2	3531.6	962.2	819.5	937.3	1111.0	1149.7	1022.4	896.0	809.2	801.4
55°	5302.2	3428.4	860.8	774.8	886.6	1062.0	1119.6	982.0	842.7	775.6	764.5
57.5°	5324.5	3215.2	768.8	726.6	833.2	1001.8	1063.7	933.0	808.3	752.4	743.0
60°	5151.7	2897.0	697.4	687.1	779.1	933.9	1000.9	890.0	773.1	726.6	717.2
62.5°	4721.7	2551.3	647.5	650.9	724.0	862.5	954.5	848.7	739.5	698.2	689.6
65°	3982.2	2105.9	599.4	614.0	675.0	806.6	912.4	814.3	706.0	676.7	669.0
67.5°	2766.3	1520.3	559.8	575.3	628.6	749.8	863.3	777.4	668.1	652.7	640.6
70°	1531.5	935.6	513.4	531.4	580.4	686.2	808.3	721.5	613.1	606.2	589.0
72.5°	804.9	595.9	460.9	480.7	515.1	604.5	724.0	660.4	558.9	529.7	507.3
74°	628.6	488.4	425.7	446.3	469.5	556.4	674.2	616.6	520.2	485.8	468.6
75°	547.8	435.1	395.6	422.2	442.9	523.7	635.5	585.6	498.7	466.1	450.6
77.5°	387.0	325.9	323.3	355.1	366.3	459.2	572.7	533.1	444.6	410.2	395.6
80°	271.7	244.2	256.3	276.0	291.5	405.9	531.4	460.9	364.6	324.2	319.0
82.5°	177.1	159.9	183.2	201.2	206.4	299.2	429.1	350.0	265.7	215.8	200.4
85°	81.7	80.0	104.9	102.3	101.5	146.2	254.5	204.7	153.1	114.4	107.5
87.5°	20.6	19.8	25.8	21.5	25.8	22.4	23.2	6.0	0.9	0.0	0.0
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)