

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: P458742

Luminaire Tested: **GALN-SA2D-735-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458742
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-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 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: 14460 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

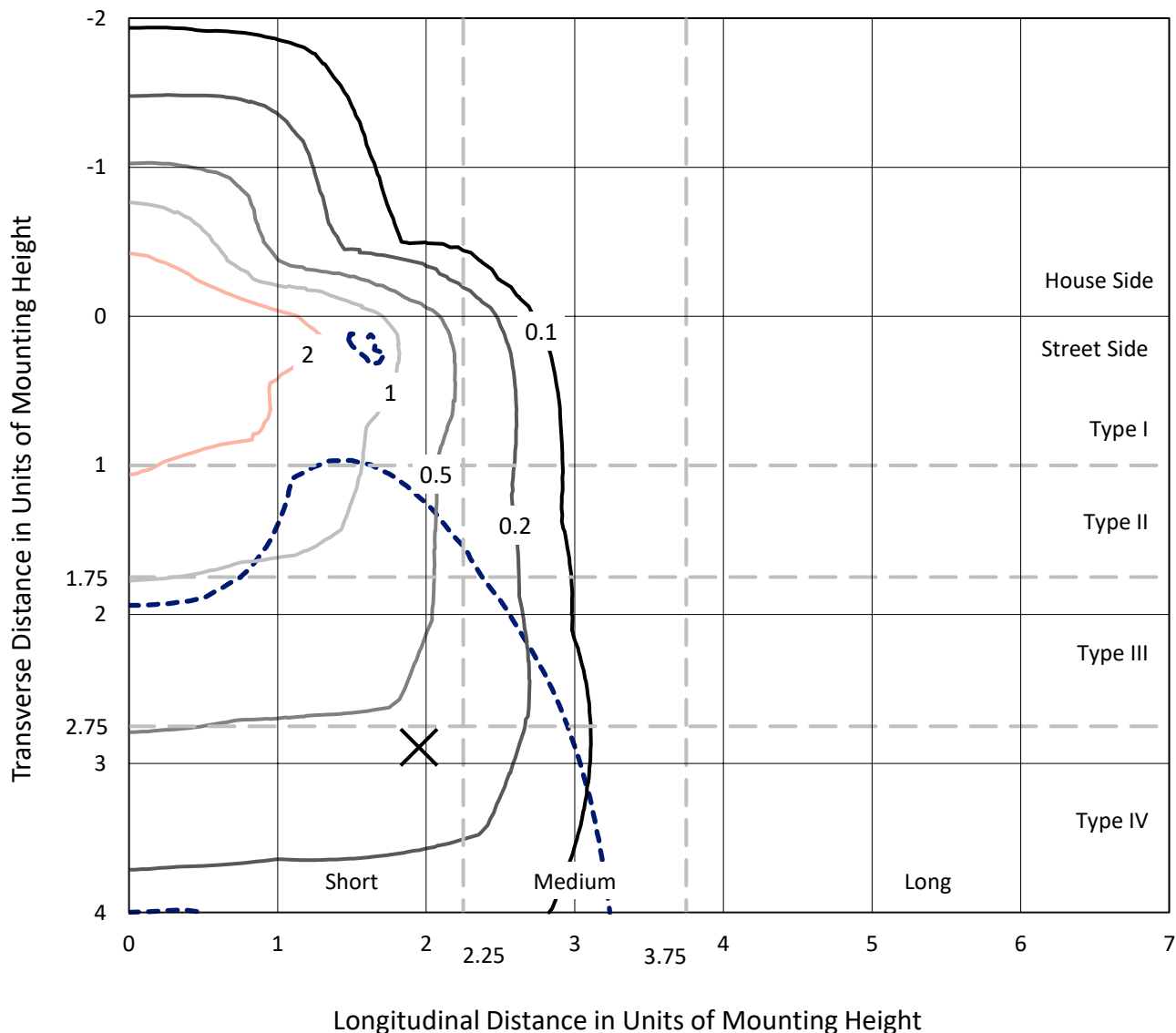
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

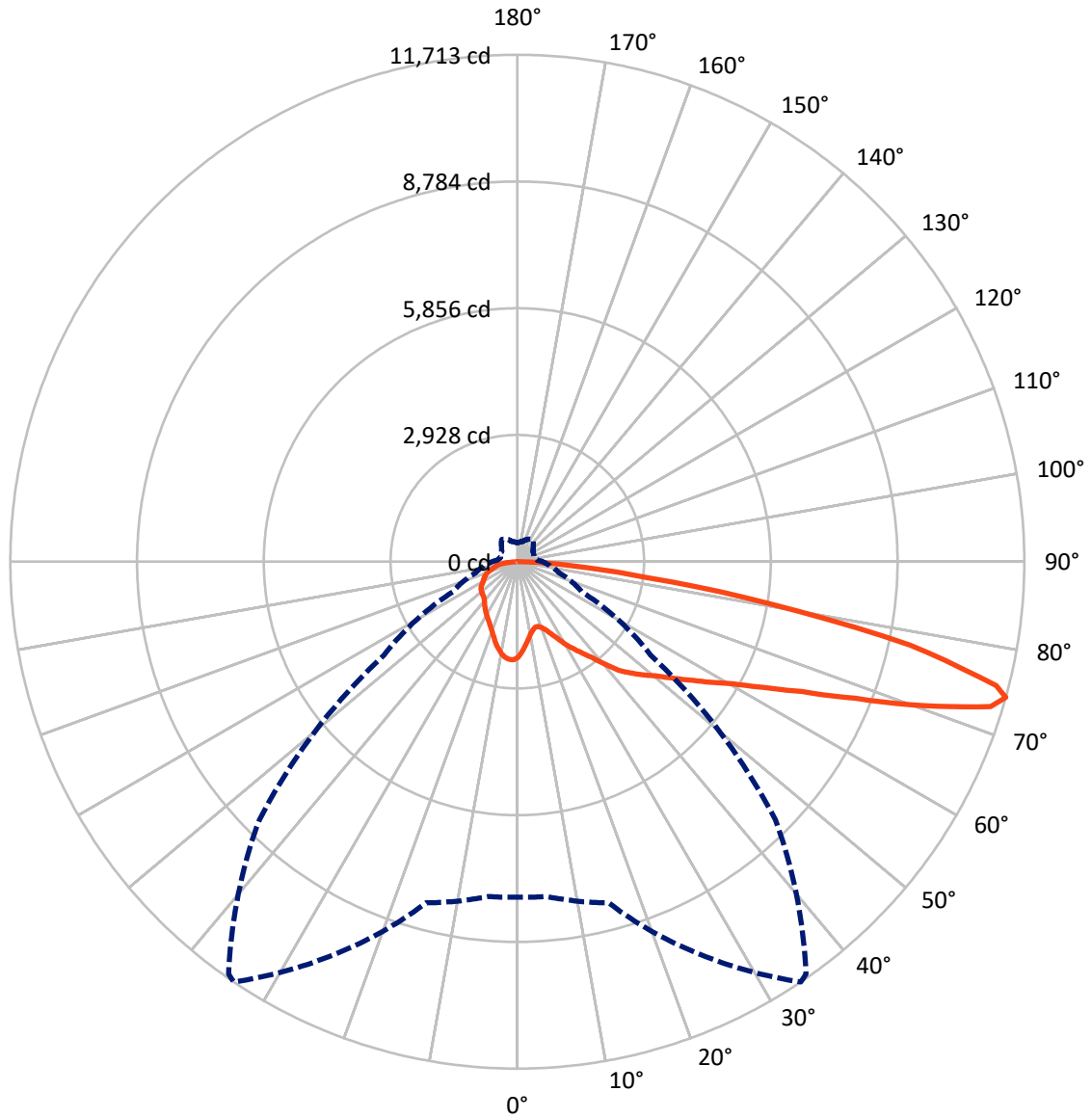
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	3077.2	0.0	3077.2
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	11382.8	0.0	11382.8
	% Fixture	78.7	0.0	78.7
Total	Lumens	14460.0	0.0	14460.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.8	1.4
10°-20°	549.6	3.8
20°-30°	906.2	6.3
30°-40°	1357.4	9.4
40°-50°	1973.3	13.6
50°-60°	2756.2	19.1
60°-70°	3450.7	23.9
70°-80°	2853.4	19.7
80°-90°	412.3	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°	14460.0	100.0
0°-180°	14460.0	100.0

Coefficient of Utilization



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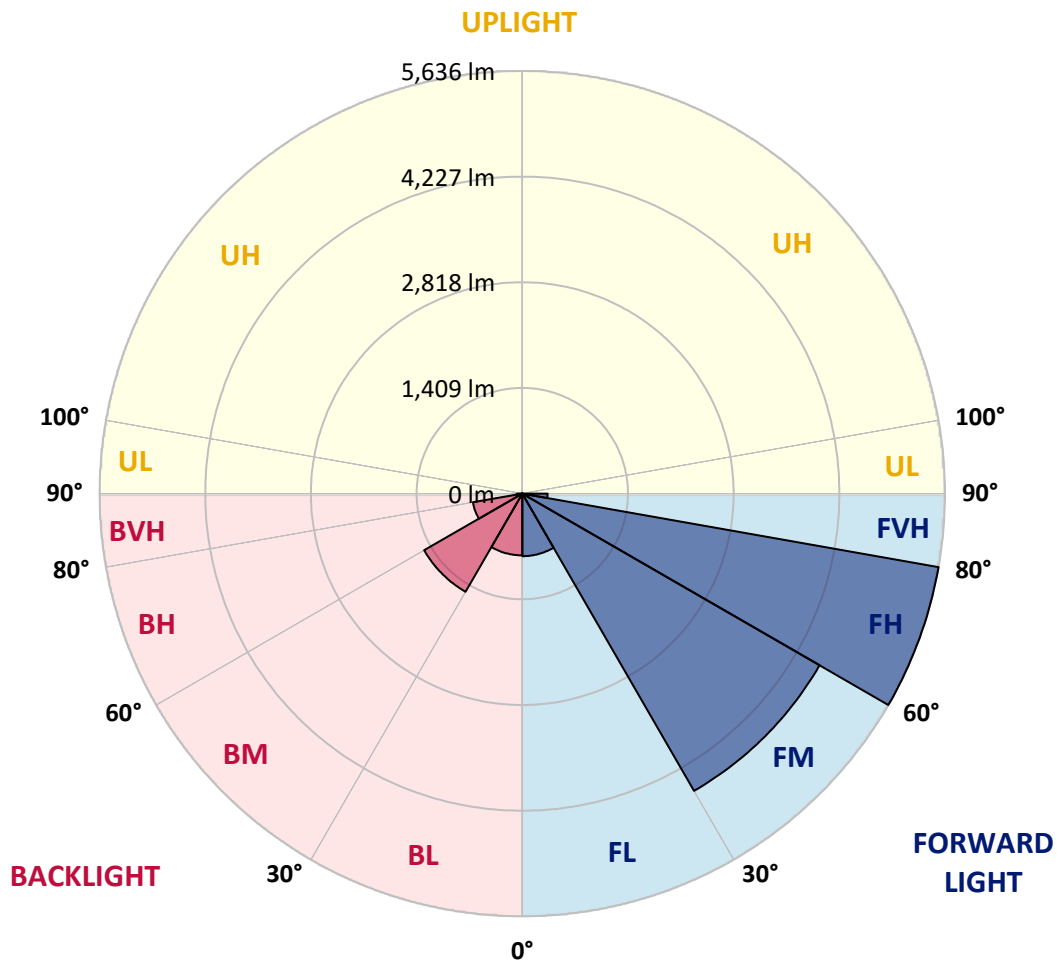
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	833.6	5.8			
FM (30°-60°)	4575.7	31.6			
FH (60°-80°)	5635.7	39.0			G3/7500
FVH (80°-90°)	337.8	2.3			G3/500
BL (0°-30°)	823.1	5.7	B2/1000		
BM (30°-60°)	1511.2	10.5	B2/2500		
BH (60°-80°)	668.3	4.6	B2/1000		G2/1000
BVH (80°-90°)	74.5	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°	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8
2.5°	2040.3	2050.7	2056.4	2076.4	2081.2	2087.6	2104.4	2126.8	2155.7	2181.3	2203.8
5°	1870.5	1886.5	1896.1	1913.8	1948.2	1951.4	1996.3	2047.5	2106.0	2160.5	2205.4
7.5°	1709.5	1727.1	1735.1	1767.2	1812.8	1820.0	1885.7	1966.6	2064.4	2146.9	2215.8
10°	1588.5	1597.3	1615.0	1639.0	1693.5	1698.3	1784.0	1892.1	2018.7	2140.5	2233.4
12.5°	1522.8	1527.6	1531.7	1557.3	1611.0	1618.2	1707.9	1830.5	1982.7	2145.3	2262.2
15°	1532.5	1534.1	1516.4	1521.2	1564.5	1574.9	1663.8	1789.6	1960.2	2157.3	2305.5
17.5°	1613.4	1607.8	1564.5	1542.1	1572.5	1577.3	1655.0	1773.6	1949.8	2179.7	2350.3
20°	1740.7	1732.7	1658.2	1608.6	1626.2	1630.2	1683.9	1785.6	1960.2	2216.6	2420.0
22.5°	1899.3	1896.1	1783.2	1723.1	1722.3	1722.3	1750.3	1828.8	1991.5	2267.0	2492.9
25°	2121.2	2104.4	1957.0	1879.3	1857.7	1856.1	1852.9	1900.1	2031.5	2320.7	2579.5
27.5°	2348.7	2319.9	2188.5	2069.2	2022.7	2017.1	1996.3	2001.1	2082.8	2381.6	2678.0
30°	2553.0	2534.6	2411.2	2279.1	2223.8	2211.0	2153.3	2126.8	2168.5	2491.3	2835.0
32.5°	2709.2	2698.0	2601.9	2481.7	2400.0	2397.6	2313.5	2291.9	2302.3	2624.3	3014.4
35°	2835.8	2839.8	2790.9	2686.8	2593.1	2579.5	2523.4	2496.1	2465.7	2816.6	3240.3
37.5°	3008.8	3017.6	3014.4	2924.7	2810.2	2813.4	2800.5	2755.7	2674.8	3031.3	3491.1
40°	3199.5	3205.9	3205.1	3170.6	3110.6	3113.8	3109.0	3057.7	2936.7	3304.4	3769.8
42.5°	3463.0	3432.6	3353.3	3387.7	3423.0	3438.2	3471.0	3422.2	3256.4	3596.0	4031.8
45°	3757.8	3700.2	3520.7	3536.7	3667.3	3696.1	3877.2	3809.9	3603.2	3930.9	4340.2
47.5°	3943.7	3886.8	3735.4	3732.2	3905.2	3933.3	4253.7	4228.9	3918.8	4292.1	4716.7
50°	4109.5	4101.5	3930.9	3971.7	4140.7	4182.4	4663.8	4640.6	4233.7	4718.3	5126.9
52.5°	4355.4	4290.5	4154.4	4238.5	4462.0	4516.4	5070.8	5002.7	4522.9	5094.8	5525.0
55°	4466.0	4450.8	4442.7	4515.6	4822.5	4861.7	5466.5	5310.3	4769.6	5413.6	5827.8
57.5°	4761.6	4733.5	4812.8	4862.5	5247.0	5307.1	5879.9	5631.5	4985.9	5666.8	5975.2
60°	5144.5	5129.3	5202.2	5291.9	5721.3	5812.6	6350.9	5905.5	5159.7	5794.2	5894.3
62.5°	5716.5	5714.9	5701.2	5893.5	6393.4	6477.5	6891.6	6172.3	5186.9	5698.8	5476.1
65°	6536.8	6507.9	6389.4	6599.2	7229.7	7328.2	7454.8	6321.3	5022.7	5209.4	4611.0
67.5°	7394.7	7393.1	7297.0	7569.3	8430.5	8532.2	8158.9	6288.4	4566.9	4220.1	3274.8
70°	8106.1	8071.6	8194.2	8919.9	9964.5	10082.3	8774.9	5901.5	3637.7	2786.9	1945.8
72.5°	8276.7	8278.3	8533.0	9961.3	11437.7	11456.1	8996.8	4783.2	2434.5	1537.3	973.3
74°	7751.2	7764.8	8159.7	10013.4	11712.5	11629.2	8429.7	3759.4	1646.2	1003.7	701.7
75°	7075.1	6989.4	7560.5	9666.5	11427.3	11337.6	7765.6	3016.8	1256.1	801.9	614.4
77.5°	3782.7	3870.0	4751.2	7213.7	9283.6	9180.3	5265.5	1446.7	678.5	558.3	442.2
80°	1346.6	1485.2	2087.6	3774.7	5952.0	5984.0	2513.0	663.3	477.4	411.8	312.4
82.5°	549.5	564.8	896.4	1675.0	3022.4	3051.3	1026.2	394.1	341.3	283.6	186.6
85°	214.7	221.1	396.5	753.0	1289.7	1373.8	354.9	208.3	209.9	162.6	95.3
87.5°	72.1	81.7	162.6	250.7	438.2	429.4	103.3	61.7	75.3	70.5	29.6
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°	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8
2.5°	2215.0	2230.2	2240.6	2251.8	2262.2	2265.4	2263.0	2270.2	2271.0	2271.8	2272.6
5°	2227.8	2248.6	2268.6	2279.9	2284.7	2280.7	2267.0	2259.8	2253.4	2248.6	2250.2
7.5°	2245.4	2275.0	2293.5	2298.3	2285.5	2267.0	2233.4	2207.0	2190.1	2178.9	2178.1
10°	2272.6	2301.5	2316.7	2303.1	2267.8	2223.0	2170.1	2120.4	2082.8	2071.6	2070.8
12.5°	2307.1	2339.9	2339.1	2299.1	2237.4	2157.3	2071.6	2013.9	1962.6	1937.0	1947.4
15°	2351.9	2376.8	2353.6	2281.5	2183.7	2074.0	1968.2	1889.7	1832.1	1804.8	1806.4
17.5°	2404.0	2425.6	2364.0	2250.2	2108.4	1967.4	1844.9	1770.4	1724.7	1704.7	1703.1
20°	2468.9	2475.3	2364.0	2195.7	2011.5	1843.3	1726.3	1674.2	1648.6	1638.2	1641.4
22.5°	2538.6	2525.8	2351.1	2118.8	1884.1	1713.5	1635.0	1611.8	1598.9	1597.3	1598.9
25°	2617.1	2581.1	2324.7	2014.7	1751.1	1601.3	1555.7	1559.7	1562.1	1562.1	1567.7
27.5°	2713.2	2641.1	2280.7	1883.3	1595.7	1497.2	1484.4	1512.4	1525.2	1527.6	1531.7
30°	2839.8	2706.8	2207.8	1719.1	1463.6	1403.5	1425.9	1463.6	1478.0	1486.8	1485.2
32.5°	2990.4	2778.9	2109.2	1554.9	1357.0	1337.8	1365.0	1403.5	1419.5	1424.3	1417.9
35°	3167.4	2860.6	1979.5	1401.1	1264.1	1275.3	1307.4	1319.4	1333.8	1333.8	1337.0
37.5°	3358.1	2926.3	1820.8	1260.1	1192.0	1232.9	1256.1	1244.9	1238.5	1230.4	1234.5
40°	3552.0	2975.2	1615.0	1120.7	1119.9	1188.8	1195.2	1163.2	1137.5	1129.5	1125.5
42.5°	3721.0	3005.6	1429.1	1012.6	1051.8	1145.5	1150.3	1099.1	1058.2	1034.2	1026.2
45°	3920.4	3040.9	1247.3	922.8	988.5	1111.1	1123.1	1054.2	994.1	943.7	930.8
47.5°	4193.6	3121.0	1103.9	853.1	942.9	1089.5	1106.3	1017.4	938.1	872.4	862.0
50°	4502.0	3230.7	992.5	805.9	907.6	1070.2	1091.1	979.7	886.0	813.1	805.1
52.5°	4784.8	3290.0	896.4	763.4	873.2	1035.0	1071.0	952.5	834.7	753.8	746.6
55°	4939.4	3193.9	801.9	721.8	825.9	989.3	1043.0	914.8	785.1	722.6	712.2
57.5°	4960.2	2995.2	716.2	676.9	776.2	933.2	990.9	869.2	753.0	700.9	692.1
60°	4799.2	2698.8	649.7	640.1	725.8	870.0	932.4	829.1	720.2	676.9	668.1
62.5°	4398.7	2376.8	603.2	606.4	674.5	803.5	889.2	790.7	688.9	650.5	642.5
65°	3709.8	1961.8	558.3	572.0	628.8	751.4	849.9	758.6	657.7	630.4	623.2
67.5°	2577.1	1416.3	521.5	535.9	585.6	698.5	804.3	724.2	622.4	608.0	596.8
70°	1426.7	871.6	478.2	495.1	540.7	639.3	753.0	672.1	571.2	564.8	548.7
72.5°	749.8	555.1	429.4	447.8	479.8	563.2	674.5	615.2	520.7	493.5	472.6
74°	585.6	455.0	396.5	415.8	437.4	518.3	628.0	574.4	484.6	452.6	436.6
75°	510.3	405.3	368.5	393.3	412.6	487.9	592.0	545.5	464.6	434.2	419.8
77.5°	360.5	303.6	301.2	330.8	341.3	427.8	533.5	496.7	414.2	382.1	368.5
80°	253.1	227.5	238.7	257.1	271.6	378.1	495.1	429.4	339.7	302.0	297.2
82.5°	165.0	149.0	170.6	187.5	192.3	278.8	399.7	326.0	247.5	201.1	186.6
85°	76.1	74.5	97.7	95.3	94.5	136.2	237.1	190.7	142.6	106.5	100.1
87.5°	19.2	18.4	24.0	20.0	24.0	20.8	21.6	5.6	0.8	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)