

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: P451200

Luminaire Tested: **GALN-SA2A-740-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9411 lumens
Efficiency: N/A
Efficacy: 149.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

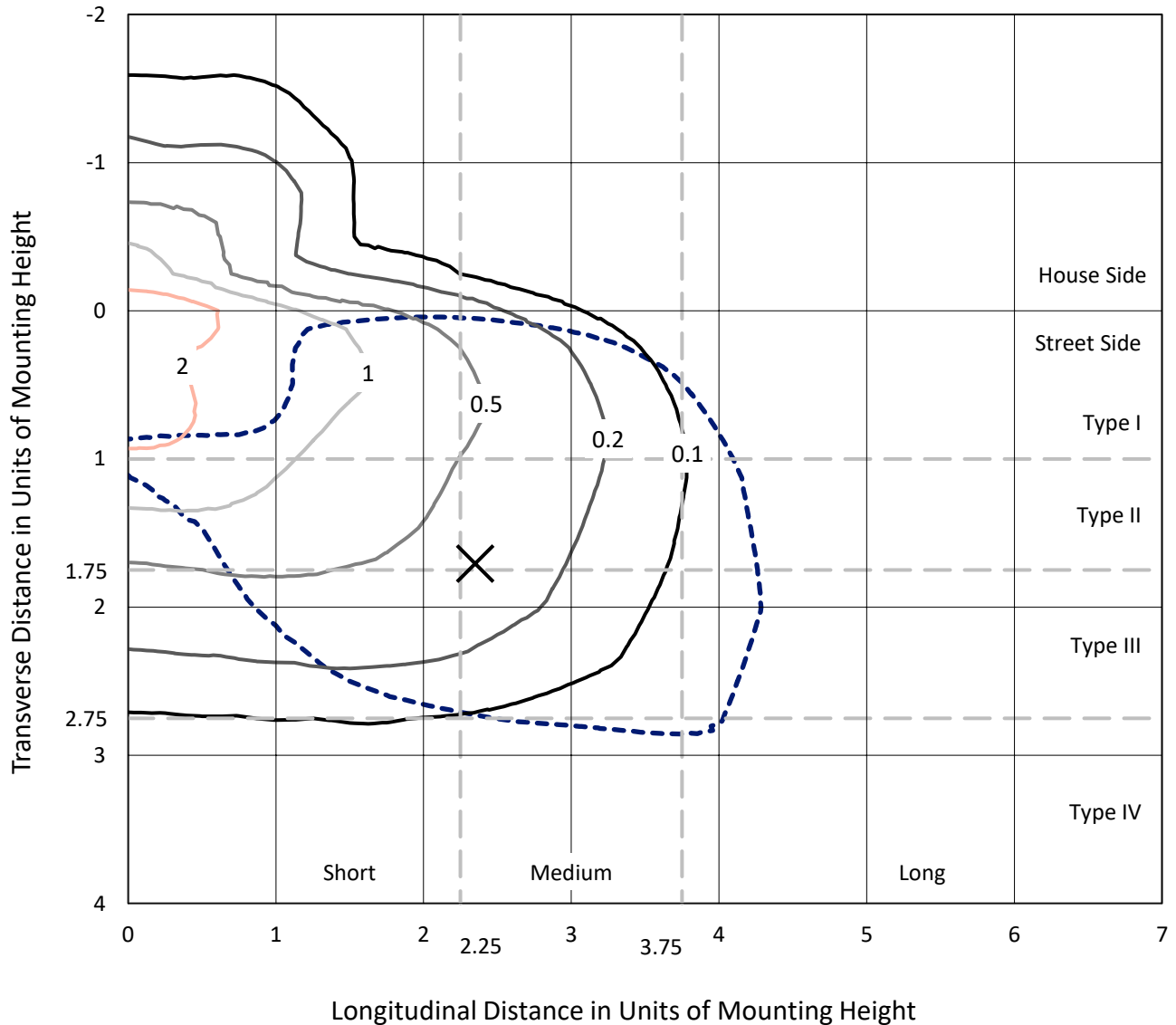
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

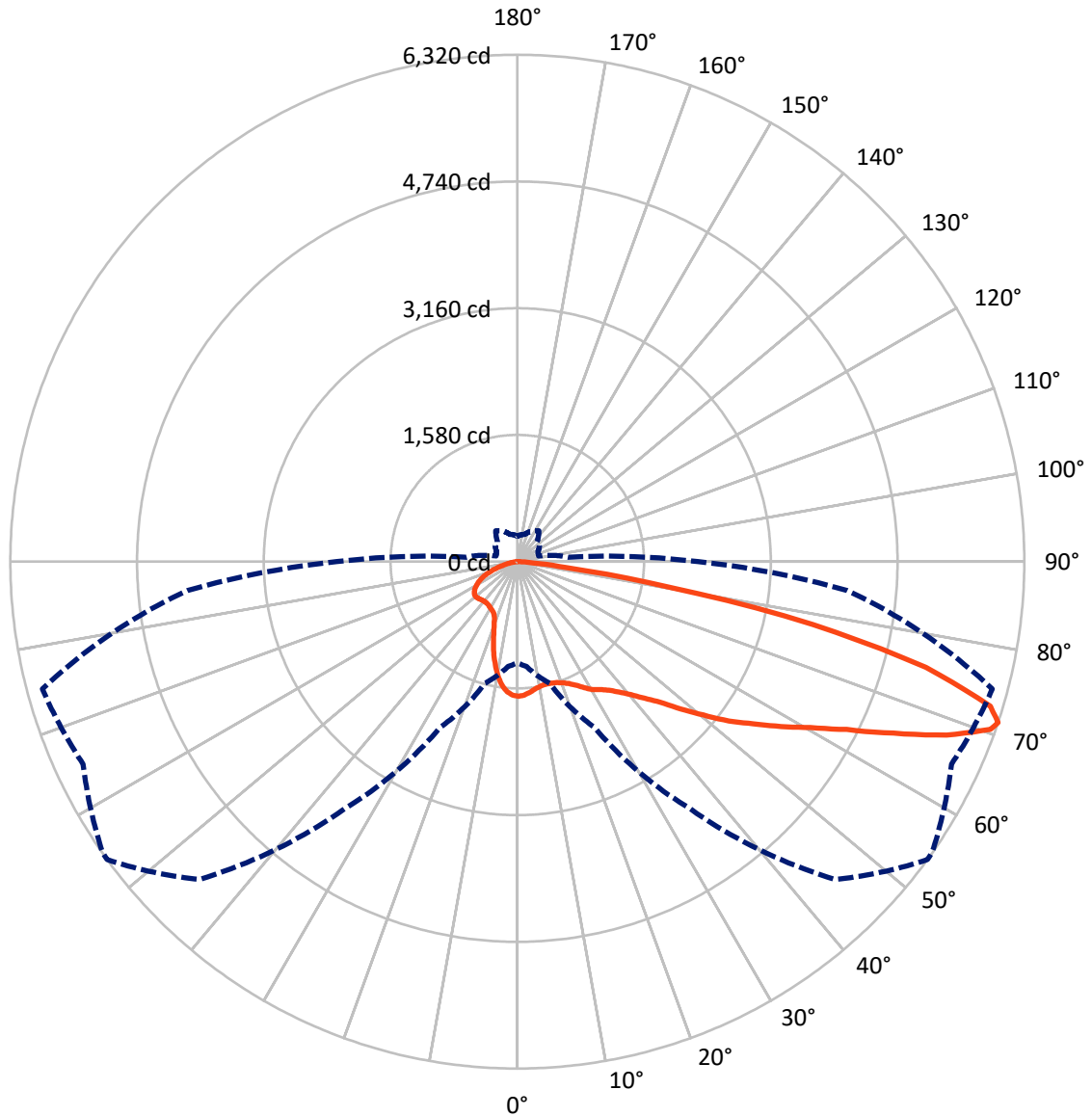
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1699.1	0.0	1699.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	7711.9	0.0	7711.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	9411.0	0.0	9411.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.6	1.6
10°-20°	395.1	4.2
20°-30°	657.9	7.0
30°-40°	972.7	10.3
40°-50°	1370.2	14.6
50°-60°	1834.7	19.5
60°-70°	2312.5	24.6
70°-80°	1579.4	16.8
80°-90°	138.9	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°	9411.0	100.0
0°-180°	9411.0	100.0

Coefficient of Utilization



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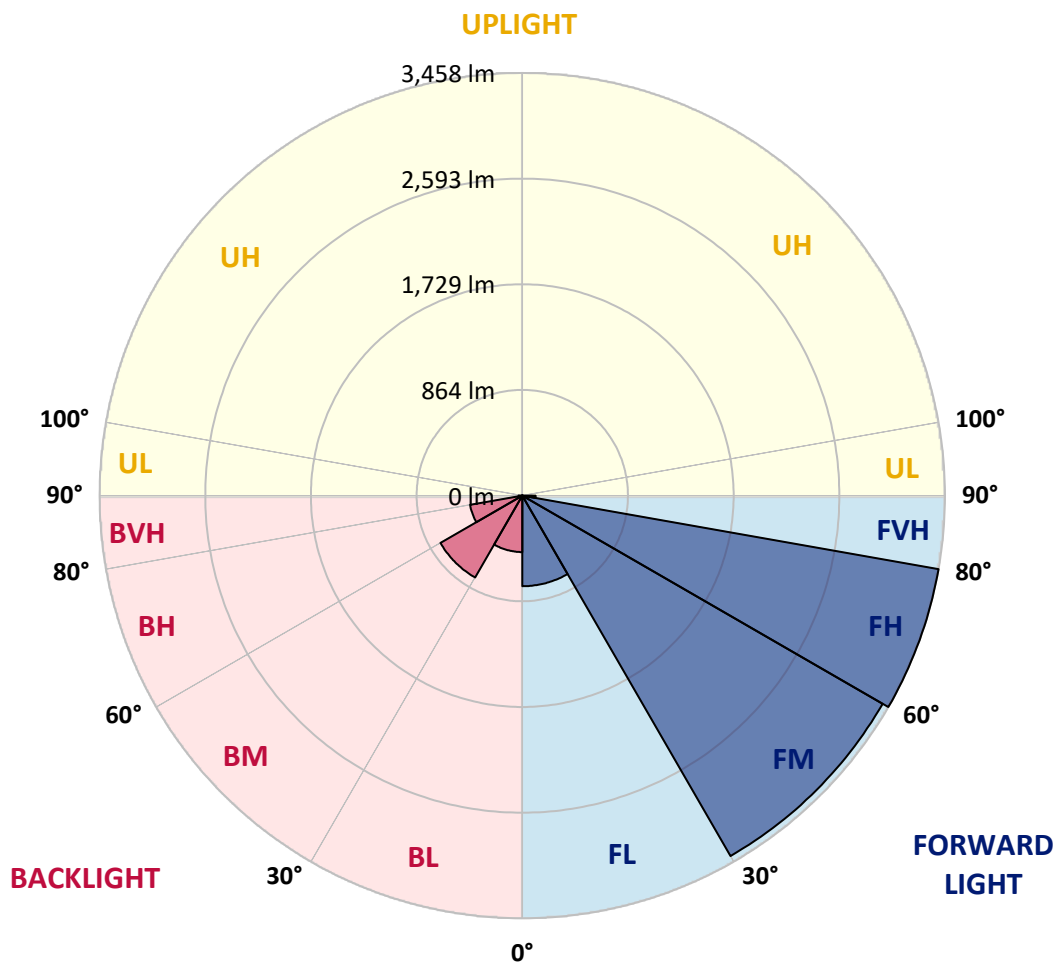
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	740.8	7.9			
FM (30°-60°)	3404.6	36.2			
FH (60°-80°)	3458.0	36.7			G2/5000
FVH (80°-90°)	108.6	1.2			G2/225
BL (0°-30°)	461.8	4.9	B1/500		
BM (30°-60°)	773.0	8.2	B1/1000		
BH (60°-80°)	433.9	4.6	B1/500		G1/500
BVH (80°-90°)	30.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1679.1	1679.1	1679.1	1679.1	1679.1	1679.1	1679.1	1679.1	1679.1	1679.1	1679.1
2.5°	1622.1	1629.8	1631.8	1636.9	1647.5	1656.2	1664.8	1663.8	1676.0	1681.1	1685.7
5°	1549.9	1552.0	1559.6	1569.8	1588.6	1612.5	1635.9	1636.4	1666.4	1690.2	1701.9
7.5°	1497.1	1503.7	1508.8	1519.4	1539.3	1565.2	1602.3	1605.4	1658.7	1706.0	1730.9
10°	1462.5	1470.1	1475.7	1488.9	1508.8	1537.7	1577.9	1583.5	1653.1	1730.9	1774.6
12.5°	1431.0	1438.6	1443.7	1461.0	1486.9	1522.5	1567.7	1574.3	1655.2	1759.9	1822.4
15°	1450.3	1456.4	1454.4	1459.5	1476.7	1517.4	1571.8	1578.4	1662.8	1787.8	1869.7
17.5°	1536.2	1541.3	1524.5	1505.2	1497.1	1527.1	1584.5	1591.6	1678.0	1816.8	1918.0
20°	1662.8	1676.5	1639.9	1596.7	1557.6	1561.6	1610.9	1618.6	1699.4	1845.8	1967.3
22.5°	1827.5	1837.7	1792.9	1721.8	1649.6	1612.5	1650.6	1655.2	1731.4	1883.4	2021.2
25°	2021.2	2027.3	1965.3	1873.8	1769.5	1699.4	1705.0	1713.1	1784.3	1926.1	2069.0
27.5°	2209.3	2228.6	2156.9	2045.1	1907.8	1790.9	1779.7	1784.8	1841.7	1950.0	2102.0
30°	2432.4	2430.9	2355.2	2225.5	2049.6	1890.5	1850.4	1849.4	1872.7	1961.7	2125.9
32.5°	2610.3	2631.2	2557.0	2415.7	2211.8	1993.7	1899.2	1897.1	1896.6	1982.0	2161.5
35°	2812.7	2815.7	2747.6	2605.3	2387.2	2123.4	1967.3	1957.1	1945.4	2025.8	2209.8
37.5°	2993.6	3007.9	2945.3	2785.7	2559.5	2258.1	2060.8	2054.2	2018.6	2101.5	2287.0
40°	3135.0	3145.6	3108.0	2956.0	2729.3	2403.5	2179.8	2167.6	2124.4	2225.5	2390.2
42.5°	3181.2	3203.1	3217.8	3143.1	2924.5	2575.8	2326.2	2310.9	2277.9	2413.6	2509.2
45°	3184.8	3219.3	3297.1	3300.7	3120.7	2782.2	2497.0	2486.3	2483.8	2654.6	2676.4
47.5°	3157.8	3192.9	3323.6	3394.2	3295.6	2990.6	2743.5	2726.8	2728.3	2952.5	2864.0
50°	3092.8	3134.5	3293.1	3454.2	3432.3	3207.1	3003.8	2998.2	3029.7	3292.5	3058.7
52.5°	2970.3	3020.6	3261.5	3491.8	3534.0	3393.7	3299.7	3283.9	3363.7	3661.6	3271.7
55°	2631.2	2706.9	3146.1	3512.7	3630.6	3572.1	3566.0	3594.5	3700.2	4064.2	3506.1
57.5°	2454.3	2511.2	2895.5	3516.2	3752.6	3779.5	3877.1	3884.3	4069.3	4491.7	3770.9
60°	2357.7	2408.0	2758.3	3492.8	3922.9	4036.3	4195.4	4220.8	4429.7	4954.8	4045.4
62.5°	2273.3	2316.5	2675.9	3412.0	4115.0	4417.0	4607.6	4619.8	4838.9	5466.2	4316.4
65°	2074.6	2123.9	2510.2	3331.2	4280.8	4892.8	5154.6	5140.4	5274.6	5907.5	4486.1
67.5°	1806.7	1869.2	2200.6	3052.1	4362.6	5412.9	5770.7	5752.9	5704.6	6196.7	4534.9
70°	1464.5	1498.1	1804.6	2569.7	4035.7	5685.8	6257.2	6238.4	5971.0	6234.8	4304.2
71°	1260.2	1312.5	1571.3	2282.5	3763.8	5602.5	6319.7	6314.7	5971.5	6129.6	4130.3
72.5°	983.6	1015.7	1244.4	1768.5	3199.0	5128.7	6165.2	6184.5	5841.9	5837.3	3771.9
75°	622.2	636.4	780.8	1041.1	1755.3	3632.1	5262.9	5315.2	5187.1	4777.9	2805.0
77.5°	361.4	379.7	467.7	613.6	758.4	1971.4	3765.8	3822.8	3604.2	2630.7	1148.4
80°	210.5	230.8	308.1	356.3	348.2	731.5	1917.5	2014.6	1560.6	664.4	322.3
82.5°	116.9	130.6	216.6	217.1	185.5	238.9	603.4	631.4	445.3	267.9	131.7
85°	84.9	96.1	139.8	126.6	89.0	102.7	209.9	220.1	180.0	112.9	42.7
87.5°	30.0	42.7	76.8	61.0	24.4	21.4	60.5	49.3	45.8	31.5	9.7
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°	1679.1	1679.1	1679.1	1679.1	1679.1	1679.1	1679.1	1679.1	1679.1	1679.1	1679.1
2.5°	1688.2	1689.2	1684.1	1675.0	1665.8	1654.2	1640.9	1630.8	1626.2	1625.7	1625.2
5°	1706.5	1709.1	1689.7	1661.3	1629.8	1591.1	1558.1	1520.5	1510.8	1495.5	1500.1
7.5°	1736.0	1734.5	1696.3	1635.9	1562.1	1480.3	1411.2	1371.0	1329.3	1317.6	1318.1
10°	1778.2	1768.5	1696.3	1584.0	1461.0	1339.5	1242.9	1181.9	1148.9	1121.4	1111.2
12.5°	1822.9	1798.5	1680.1	1511.3	1330.8	1181.9	1078.2	995.8	974.5	952.1	952.6
15°	1865.6	1825.0	1648.1	1409.1	1190.5	1013.6	913.0	863.7	857.1	859.6	859.1
17.5°	1904.3	1843.8	1599.3	1295.3	1026.9	869.3	815.9	819.5	837.2	850.0	851.5
20°	1943.4	1854.9	1526.6	1142.8	872.3	781.8	783.9	811.8	838.8	856.1	858.6
22.5°	1980.5	1860.0	1441.2	995.3	760.5	744.7	774.7	804.7	831.1	847.9	850.5
25°	2004.9	1848.3	1320.2	841.3	705.6	731.5	763.0	788.4	810.8	828.1	832.2
27.5°	2011.5	1810.7	1170.2	716.8	680.2	718.8	747.8	766.6	783.9	800.1	803.2
30°	2008.0	1755.3	1005.5	643.6	665.4	704.1	726.4	740.1	761.0	773.7	776.2
32.5°	2002.4	1690.8	833.7	604.4	653.2	690.3	703.5	715.7	715.2	710.2	713.7
35°	2004.4	1613.5	694.4	581.0	642.5	680.2	691.3	676.1	632.4	630.3	628.3
37.5°	2015.1	1537.2	593.2	564.8	637.0	678.6	684.7	614.6	576.0	558.2	553.6
40°	2042.5	1448.3	526.6	552.6	636.4	690.3	654.7	583.6	509.4	474.8	472.3
42.5°	2079.1	1360.8	486.0	544.9	642.5	708.1	642.5	539.9	459.0	438.7	435.7
45°	2133.5	1260.7	463.6	541.4	651.7	714.7	638.5	507.8	438.7	422.4	422.4
47.5°	2195.0	1165.1	451.4	538.8	663.4	710.2	602.4	497.7	429.0	431.1	440.7
50°	2256.0	1082.3	442.3	533.3	673.6	707.6	587.6	497.2	431.6	457.5	474.8
52.5°	2326.7	1023.8	431.1	524.1	673.6	691.3	583.1	507.3	438.7	446.3	454.0
55°	2412.1	1005.5	416.8	504.3	661.4	650.7	580.5	522.1	443.8	426.0	429.0
57.5°	2524.9	1035.0	403.1	479.4	633.4	608.5	579.5	526.1	432.1	417.4	414.3
60°	2656.1	1093.4	399.1	454.0	595.3	572.4	573.4	514.4	415.8	400.6	403.1
62.5°	2748.1	1128.5	396.5	434.6	553.6	532.7	558.7	500.2	408.7	395.5	398.0
65°	2748.1	1085.8	373.1	405.2	499.7	485.0	540.9	482.4	399.6	384.3	381.8
67.5°	2643.9	961.3	337.5	360.9	440.2	430.6	516.0	461.1	385.8	374.1	368.0
70°	2372.4	729.0	292.8	309.1	365.0	373.6	483.9	432.1	363.0	348.7	339.6
71°	2253.0	634.9	274.0	282.6	336.0	348.7	468.7	419.9	352.8	332.5	316.2
72.5°	2022.7	534.8	245.5	249.1	287.2	310.1	436.7	396.5	333.5	304.5	286.2
75°	1536.7	390.4	197.7	195.7	212.5	246.0	369.6	353.3	292.3	253.2	242.5
77.5°	663.9	212.5	147.9	149.5	144.4	186.6	290.8	303.5	250.6	205.9	196.2
80°	201.3	122.5	101.2	103.2	96.6	125.1	204.9	237.9	201.3	160.1	146.9
82.5°	103.2	73.2	69.1	68.1	61.5	70.7	124.0	162.7	143.9	100.1	88.5
85°	44.7	39.1	34.1	33.0	29.0	25.4	44.2	81.3	76.3	55.9	53.4
87.5°	11.2	10.2	6.6	6.1	3.6	0.5	0.0	0.0	0.0	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)