

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: P451840

Luminaire Tested: **GALN-SA2D-727-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451840
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-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 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: 12982 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

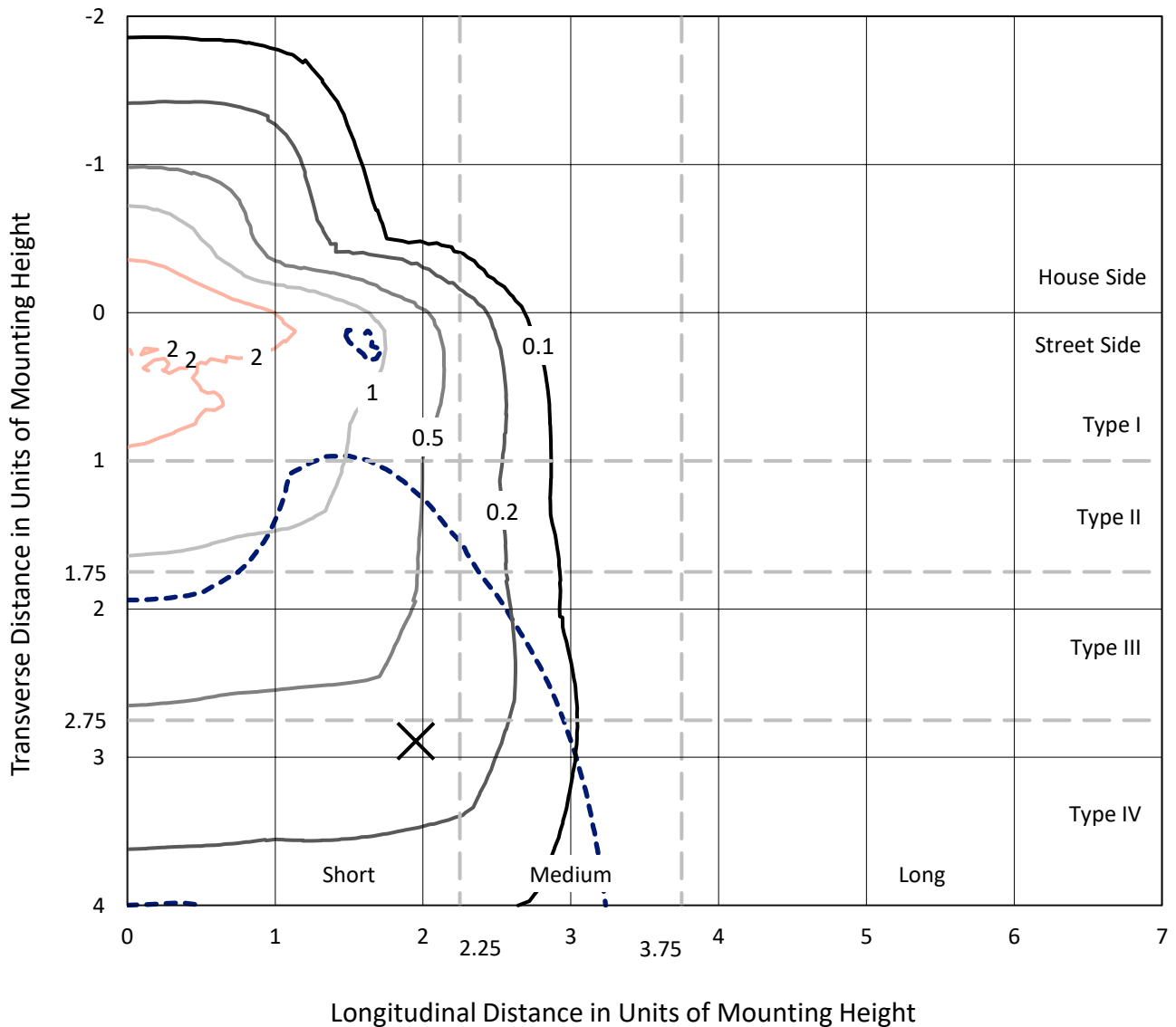
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

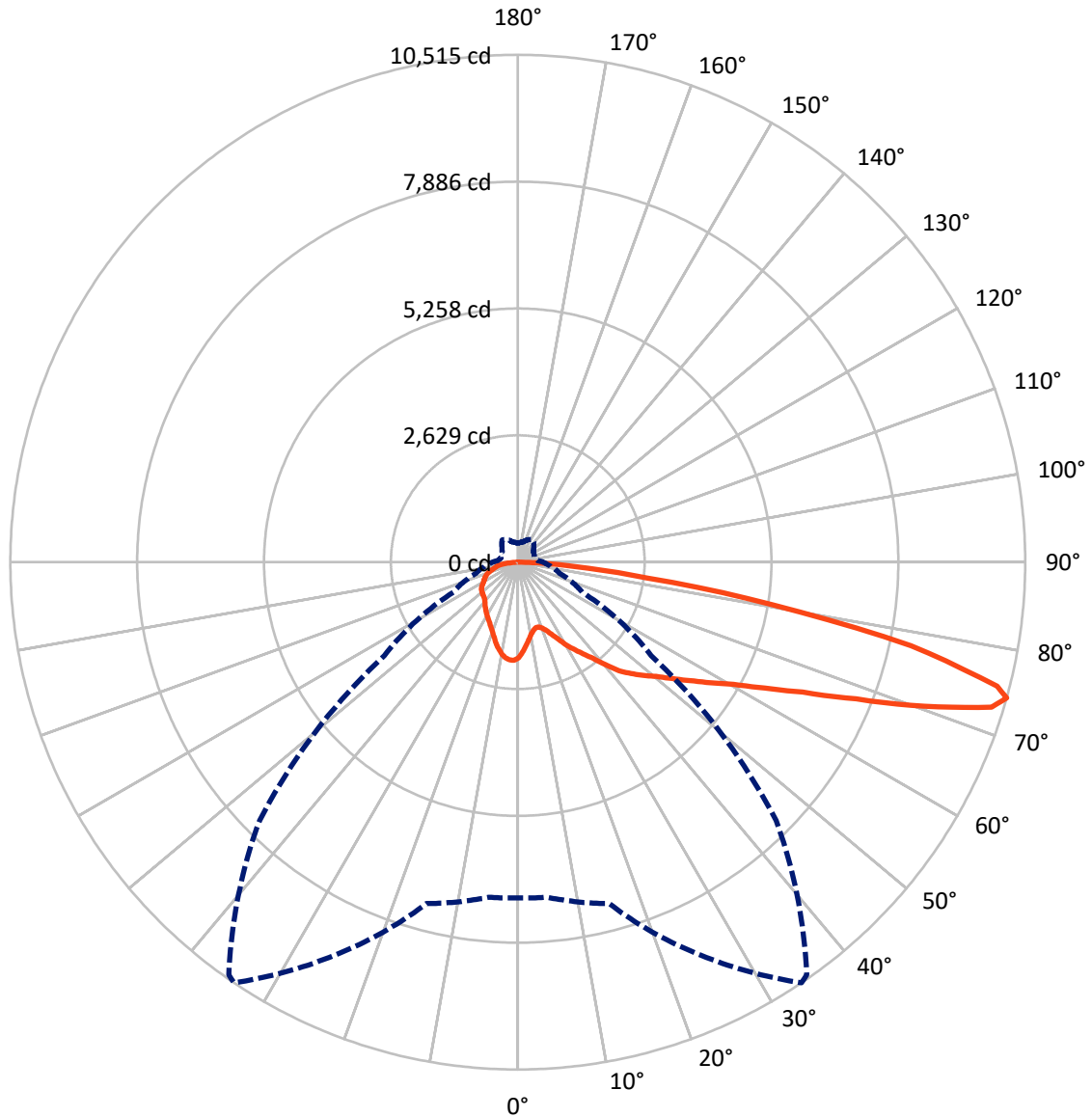
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	2762.7	0.0	2762.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	10219.3	0.0	10219.3
	% Fixture	78.7	0.0	78.7
Total	Lumens	12982.0	0.0	12982.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.3	1.4
10°-20°	493.5	3.8
20°-30°	813.6	6.3
30°-40°	1218.7	9.4
40°-50°	1771.6	13.6
50°-60°	2474.5	19.1
60°-70°	3098.0	23.9
70°-80°	2561.8	19.7
80°-90°	370.2	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°	12982.0	100.0
0°-180°	12982.0	100.0

Coefficient of Utilization



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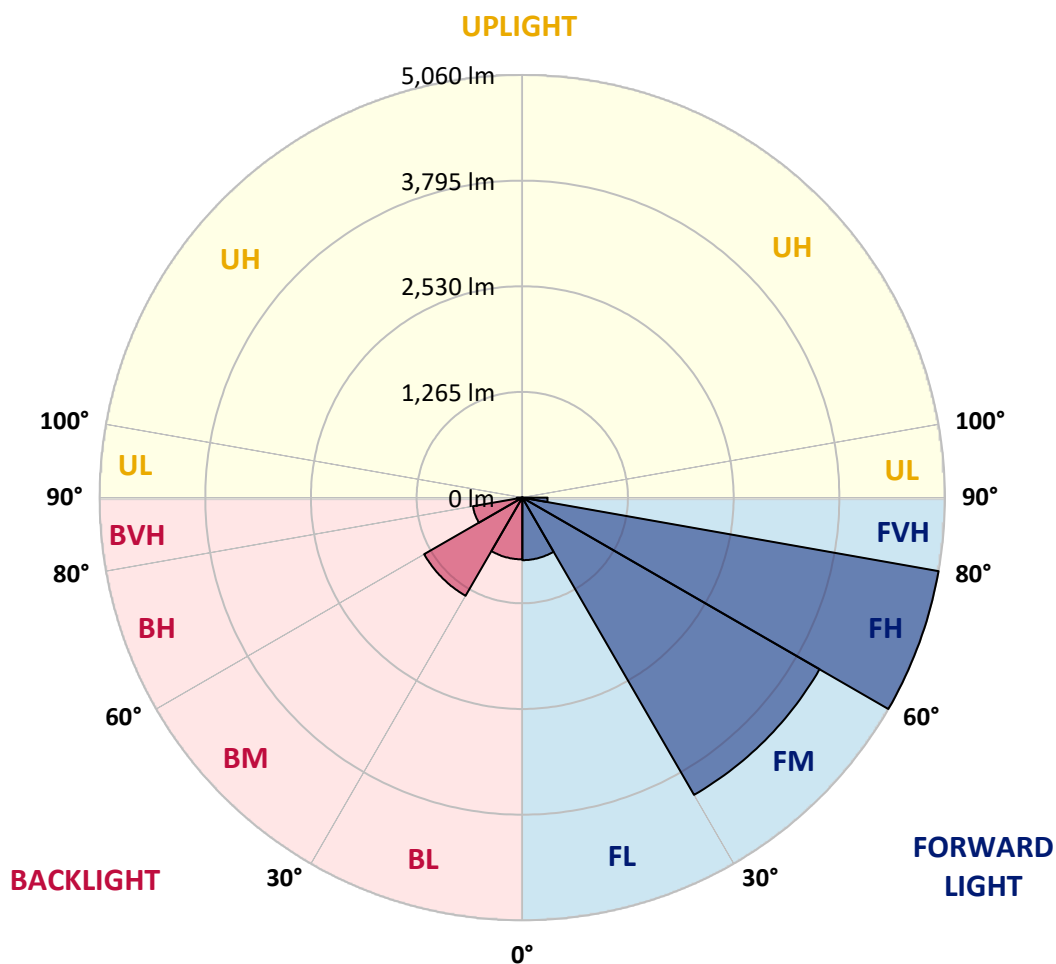
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	748.4	5.8			
FM (30°-60°)	4108.0	31.6			
FH (60°-80°)	5059.7	39.0			G3/7500
FVH (80°-90°)	303.2	2.3			G3/500
BL (0°-30°)	739.0	5.7	B2/1000		
BM (30°-60°)	1356.8	10.5	B2/2500		
BH (60°-80°)	600.0	4.6	B2/1000		G2/1000
BVH (80°-90°)	66.9	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°	1982.1	1982.1	1982.1	1982.1	1982.1	1982.1	1982.1	1982.1	1982.1	1982.1	1982.1
2.5°	1831.8	1841.1	1846.2	1864.1	1868.5	1874.2	1889.3	1909.5	1935.3	1958.4	1978.5
5°	1679.3	1693.7	1702.3	1718.2	1749.1	1752.0	1792.2	1838.3	1890.8	1939.7	1979.9
7.5°	1534.8	1550.6	1557.8	1586.5	1627.5	1634.0	1693.0	1765.6	1853.4	1927.4	1989.3
10°	1426.2	1434.1	1449.9	1471.5	1520.4	1524.7	1601.6	1698.7	1812.4	1921.7	2005.1
12.5°	1367.2	1371.5	1375.1	1398.1	1446.3	1452.8	1533.3	1643.4	1780.0	1926.0	2031.0
15°	1375.8	1377.3	1361.4	1365.7	1404.6	1413.9	1493.8	1606.7	1759.9	1936.8	2069.8
17.5°	1448.5	1443.4	1404.6	1384.4	1411.8	1416.1	1485.9	1592.3	1750.5	1956.9	2110.1
20°	1562.8	1555.6	1488.7	1444.1	1460.0	1463.6	1511.7	1603.1	1759.9	1990.0	2172.7
22.5°	1705.2	1702.3	1600.9	1547.0	1546.3	1546.3	1571.4	1641.9	1787.9	2035.3	2238.1
25°	1904.4	1889.3	1757.0	1687.2	1667.8	1666.4	1663.5	1705.9	1823.9	2083.5	2315.8
27.5°	2108.7	2082.8	1964.8	1857.7	1816.0	1810.9	1792.2	1796.5	1869.9	2138.2	2404.3
30°	2292.1	2275.5	2164.8	2046.1	1996.5	1985.0	1933.2	1909.5	1946.9	2236.7	2545.2
32.5°	2432.3	2422.2	2335.9	2228.1	2154.7	2152.5	2077.0	2057.6	2067.0	2356.1	2706.3
35°	2545.9	2549.5	2505.7	2412.2	2328.0	2315.8	2265.5	2241.0	2213.7	2528.7	2909.1
37.5°	2701.3	2709.2	2706.3	2625.8	2522.9	2525.8	2514.3	2474.0	2401.4	2721.4	3134.2
40°	2872.5	2878.2	2877.5	2846.6	2792.6	2795.5	2791.2	2745.2	2636.6	2966.7	3384.5
42.5°	3109.1	3081.7	3010.5	3041.5	3073.1	3086.8	3116.3	3072.4	2923.5	3228.5	3619.7
45°	3373.7	3322.0	3160.9	3175.2	3292.5	3318.4	3480.9	3420.5	3234.9	3529.1	3896.6
47.5°	3540.6	3489.5	3353.6	3350.7	3506.1	3531.2	3818.9	3796.6	3518.3	3853.4	4234.6
50°	3689.5	3682.3	3529.1	3565.8	3717.5	3754.9	4187.1	4166.3	3800.9	4236.0	4602.8
52.5°	3910.2	3852.0	3729.7	3805.2	4005.9	4054.8	4552.5	4491.4	4060.6	4574.1	4960.3
55°	4009.5	3995.8	3988.6	4054.1	4329.5	4364.8	4907.8	4767.5	4282.1	4860.3	5232.1
57.5°	4274.9	4249.7	4320.9	4365.5	4710.7	4764.7	5278.9	5055.9	4476.3	5087.6	5364.5
60°	4618.7	4605.0	4670.4	4751.0	5136.5	5218.5	5701.8	5301.9	4632.3	5201.9	5291.8
62.5°	5132.2	5130.7	5118.5	5291.1	5739.9	5815.4	6187.2	5541.4	4656.8	5116.3	4916.4
65°	5868.6	5842.7	5736.3	5924.7	6490.7	6579.2	6692.8	5675.1	4509.3	4676.9	4139.7
67.5°	6638.9	6637.4	6551.1	6795.7	7568.8	7660.1	7325.0	5645.7	4100.1	3788.7	2940.1
70°	7277.5	7246.6	7356.6	8008.2	8946.0	9051.8	7878.0	5298.3	3265.9	2502.1	1746.9
72.5°	7430.7	7432.1	7660.8	8943.2	10268.6	10285.2	8077.3	4294.3	2185.6	1380.1	873.8
74°	6958.9	6971.1	7325.7	8989.9	10515.3	10440.5	7568.1	3375.2	1477.9	901.1	630.0
75°	6351.9	6275.0	6787.7	8678.5	10259.3	10178.7	6971.9	2708.5	1127.7	719.9	551.6
77.5°	3396.0	3474.4	4265.5	6476.3	8334.7	8241.9	4727.3	1298.9	609.2	501.3	397.0
80°	1209.0	1333.4	1874.2	3388.8	5343.6	5372.4	2256.1	595.5	428.6	369.7	280.5
82.5°	493.4	507.0	804.8	1503.8	2713.5	2739.4	921.3	353.8	306.4	254.6	167.6
85°	192.7	198.5	356.0	676.0	1157.9	1233.4	318.6	187.0	188.4	146.0	85.6
87.5°	64.7	73.4	146.0	225.1	393.4	385.5	92.8	55.4	67.6	63.3	26.6
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°	1982.1	1982.1	1982.1	1982.1	1982.1	1982.1	1982.1	1982.1	1982.1	1982.1	1982.1
2.5°	1988.6	2002.2	2011.6	2021.7	2031.0	2033.9	2031.7	2038.2	2038.9	2039.6	2040.3
5°	2000.1	2018.8	2036.8	2046.8	2051.1	2047.5	2035.3	2028.8	2023.1	2018.8	2020.2
7.5°	2015.9	2042.5	2059.0	2063.4	2051.9	2035.3	2005.1	1981.4	1966.3	1956.2	1955.5
10°	2040.3	2066.2	2079.9	2067.7	2036.0	1995.8	1948.3	1903.7	1869.9	1859.8	1859.1
12.5°	2071.3	2100.8	2100.0	2064.1	2008.7	1936.8	1859.8	1808.1	1762.0	1739.0	1748.4
15°	2111.5	2133.8	2113.0	2048.3	1960.5	1862.0	1767.1	1696.6	1644.8	1620.3	1621.8
17.5°	2158.3	2177.7	2122.3	2020.2	1892.9	1766.3	1656.3	1589.4	1548.4	1530.4	1529.0
20°	2216.6	2222.3	2122.3	1971.3	1805.9	1654.9	1549.9	1503.1	1480.1	1470.7	1473.6
22.5°	2279.1	2267.6	2110.8	1902.3	1691.5	1538.4	1467.9	1447.0	1435.5	1434.1	1435.5
25°	2349.6	2317.2	2087.1	1808.8	1572.2	1437.7	1396.7	1400.3	1402.4	1402.4	1407.5
27.5°	2435.9	2371.2	2047.5	1690.8	1432.6	1344.2	1332.7	1357.8	1369.3	1371.5	1375.1
30°	2549.5	2430.2	1982.1	1543.4	1314.0	1260.0	1280.2	1314.0	1326.9	1334.8	1333.4
32.5°	2684.7	2494.9	1893.6	1396.0	1218.3	1201.1	1225.5	1260.0	1274.4	1278.7	1273.0
35°	2843.7	2568.2	1777.1	1257.9	1134.9	1145.0	1173.7	1184.5	1197.5	1197.5	1200.3
37.5°	3014.9	2627.2	1634.7	1131.3	1070.2	1106.8	1127.7	1117.6	1111.9	1104.7	1108.3
40°	3188.9	2671.1	1449.9	1006.2	1005.4	1067.3	1073.0	1044.3	1021.3	1014.1	1010.5
42.5°	3340.6	2698.4	1283.0	909.1	944.3	1028.4	1032.8	986.7	950.1	928.5	921.3
45°	3519.7	2730.1	1119.8	828.5	887.5	997.5	1008.3	946.5	892.5	847.2	835.7
47.5°	3765.0	2802.0	991.0	765.9	846.5	978.1	993.2	913.4	842.2	783.2	773.9
50°	4041.9	2900.5	891.1	723.5	814.8	960.8	979.5	879.6	795.4	730.0	722.8
52.5°	4295.7	2953.7	804.8	685.4	783.9	929.2	961.6	855.1	749.4	676.8	670.3
55°	4434.5	2867.4	719.9	648.0	741.5	888.2	936.4	821.3	704.8	648.7	639.4
57.5°	4453.2	2689.1	643.0	607.7	696.9	837.9	889.6	780.3	676.0	629.3	621.4
60°	4308.7	2423.0	583.3	574.6	651.6	781.0	837.1	744.4	646.6	607.7	599.8
62.5°	3949.1	2133.8	541.6	544.4	605.6	721.4	798.3	709.8	618.5	584.0	576.8
65°	3330.6	1761.3	501.3	513.5	564.6	674.6	763.1	681.1	590.5	566.0	559.5
67.5°	2313.6	1271.5	468.2	481.1	525.7	627.1	722.1	650.2	558.8	545.9	535.8
70°	1280.9	782.5	429.4	444.5	485.5	573.9	676.0	603.4	512.8	507.0	492.6
72.5°	673.2	498.4	385.5	402.0	430.8	505.6	605.6	552.3	467.5	443.0	424.3
74°	525.7	408.5	356.0	373.3	392.7	465.3	563.8	515.7	435.1	406.3	392.0
75°	458.1	363.9	330.8	353.1	370.4	438.0	531.5	489.8	417.1	389.8	376.9
77.5°	323.6	272.6	270.4	297.0	306.4	384.0	479.0	445.9	371.8	343.1	330.8
80°	227.3	204.3	214.3	230.9	243.8	339.5	444.5	385.5	304.9	271.1	266.8
82.5°	148.2	133.8	153.2	168.3	172.6	250.3	358.9	292.7	222.2	180.5	167.6
85°	68.3	66.9	87.7	85.6	84.9	122.3	212.9	171.2	128.0	95.7	89.9
87.5°	17.3	16.5	21.6	18.0	21.6	18.7	19.4	5.0	0.7	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)