

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: P382871

Luminaire Tested: **GLEON-SA2B-735-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382871
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2B-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10894.4 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

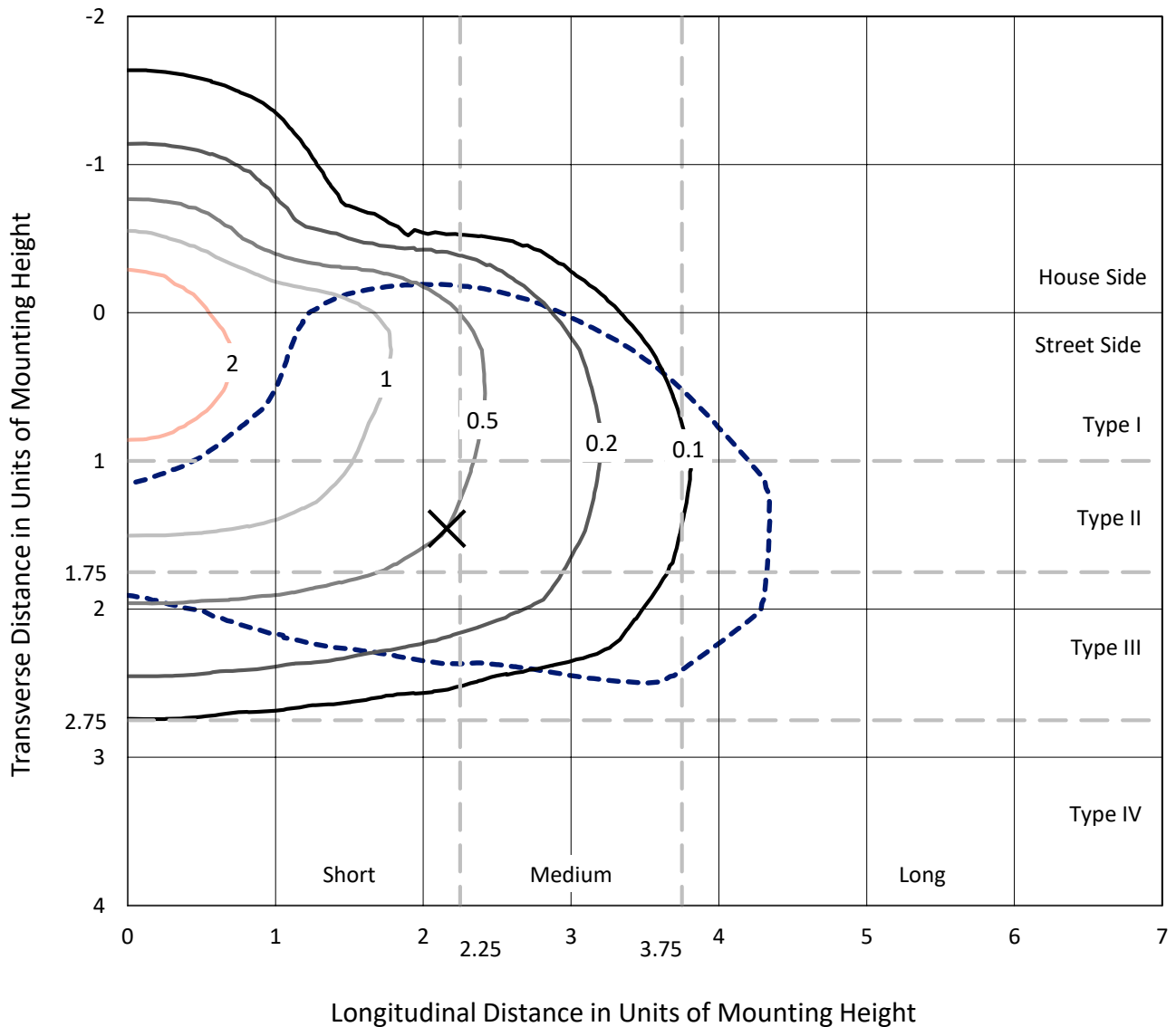
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

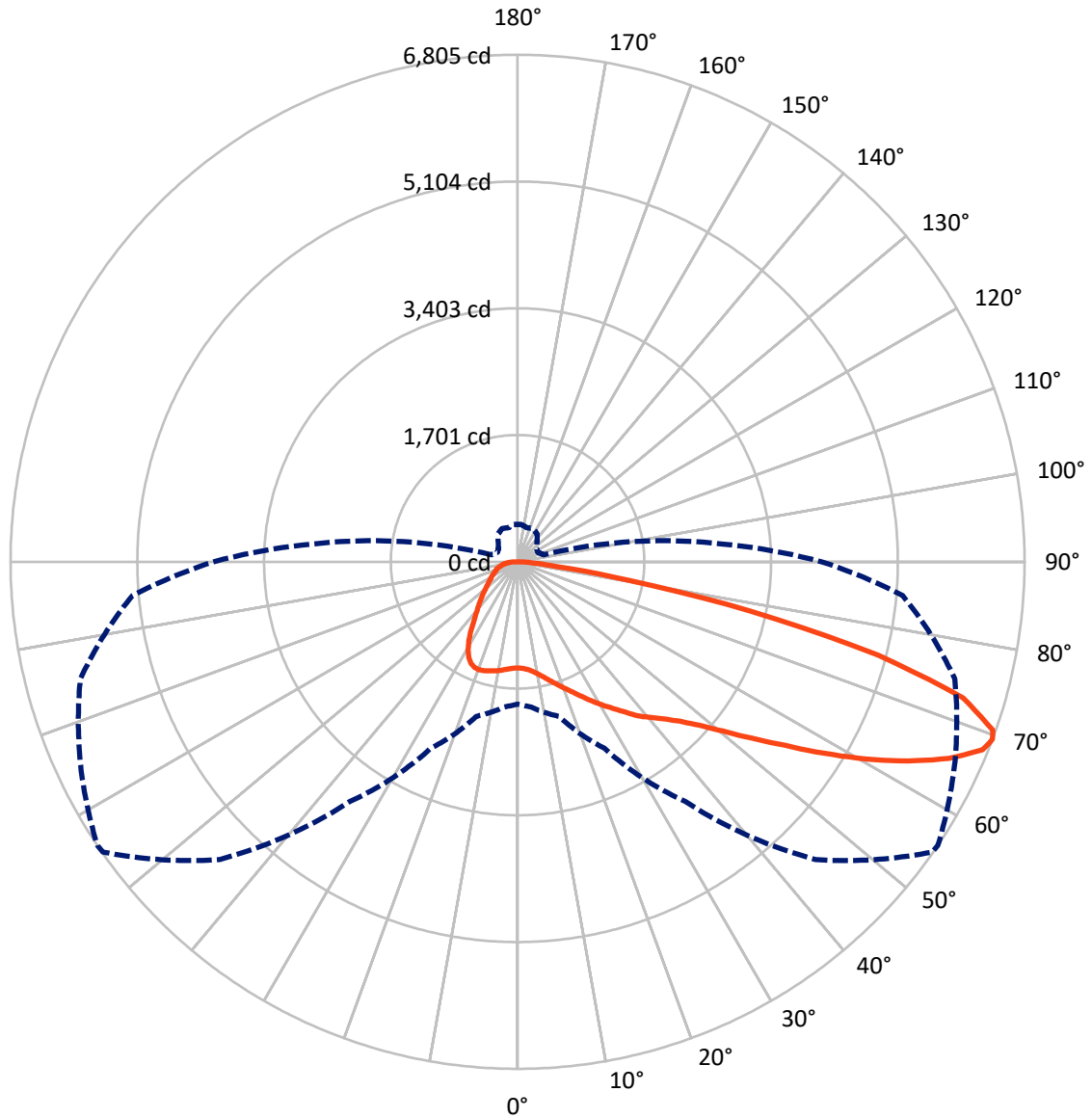
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2426.2	0.0	2426.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	8468.3	0.0	8468.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	10894.4	0.0	10894.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.9	1.3
10°-20°	449.8	4.1
20°-30°	785.2	7.2
30°-40°	1127.9	10.4
40°-50°	1561.0	14.3
50°-60°	2287.1	21.0
60°-70°	2788.4	25.6
70°-80°	1541.6	14.2
80°-90°	213.5	2.0
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°	10894.4	100.0
0°-180°	10894.4	100.0

Coefficient of Utilization



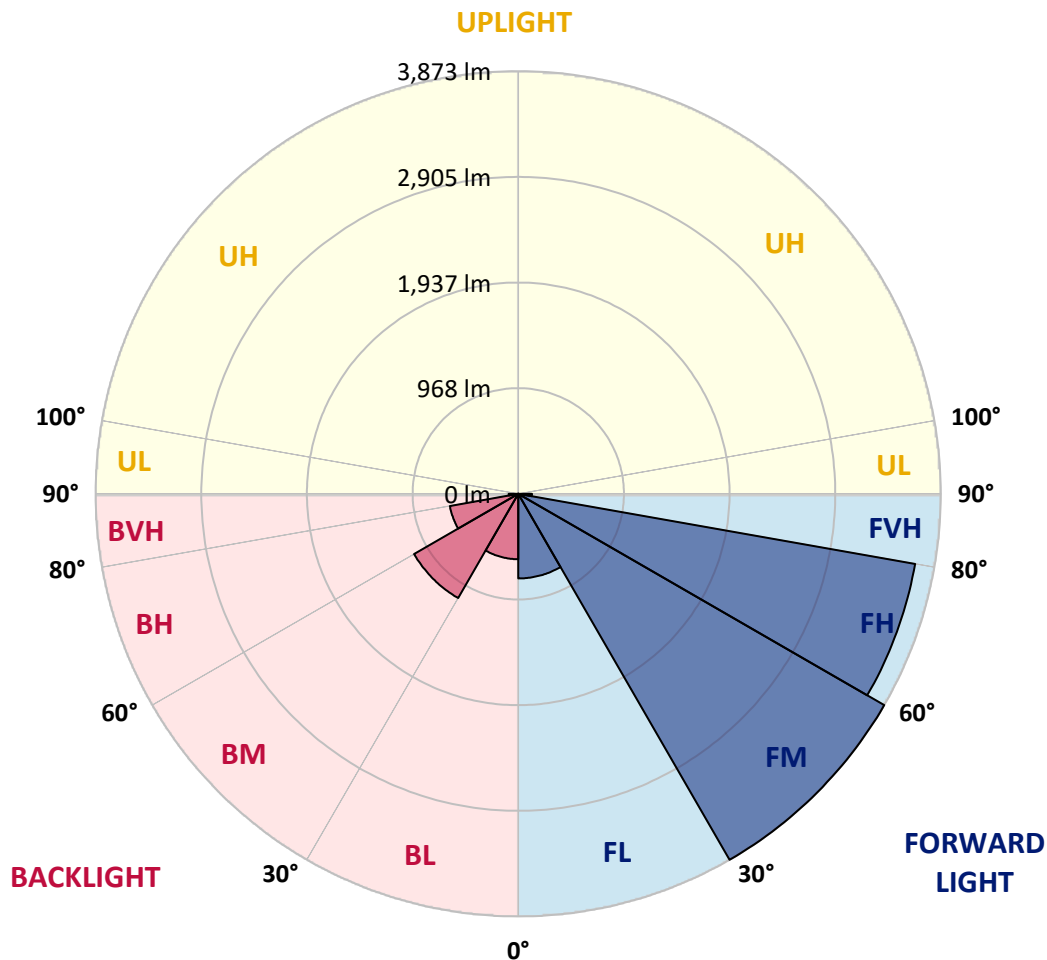
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	775.4	7.1			
FM (30°-60°)	3873.4	35.6			
FH (60°-80°)	3693.8	33.9			G2/5000
FVH (80°-90°)	125.8	1.2			G2/225
BL (0°-30°)	599.6	5.5	B2/1000		
BM (30°-60°)	1102.6	10.1	B2/2500		
BH (60°-80°)	636.2	5.8	B2/1000		G2/1000
BVH (80°-90°)	87.7	0.8			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2
2.5°	1433.3	1434.8	1433.7	1436.6	1433.3	1435.5	1433.7	1433.7	1432.5	1429.2	1425.5
5°	1455.8	1458.8	1456.9	1459.9	1455.8	1456.6	1453.2	1453.2	1449.8	1442.7	1435.1
7.5°	1491.1	1494.5	1493.0	1496.0	1490.4	1490.4	1485.8	1485.4	1478.7	1467.1	1458.4
10°	1533.1	1537.6	1536.1	1540.6	1536.1	1537.6	1533.1	1533.1	1524.1	1507.6	1496.7
12.5°	1594.3	1599.9	1595.8	1595.5	1593.5	1596.6	1592.8	1592.0	1583.8	1561.3	1546.3
15°	1676.1	1682.1	1673.5	1672.8	1662.3	1661.1	1661.1	1660.0	1654.7	1627.7	1602.9
17.5°	1770.3	1772.2	1764.7	1752.7	1739.2	1730.5	1729.4	1732.4	1732.4	1700.9	1661.5
20°	1862.6	1866.0	1860.0	1846.5	1829.3	1816.5	1807.5	1813.4	1813.1	1775.5	1719.6
22.5°	1963.2	1971.1	1962.1	1944.8	1924.6	1910.3	1894.6	1899.8	1900.2	1854.0	1776.7
25°	2093.5	2086.3	2080.7	2056.3	2027.4	2012.8	1998.2	2003.4	2001.9	1938.5	1835.6
27.5°	2208.7	2210.2	2202.6	2176.7	2143.4	2111.1	2110.3	2113.7	2108.1	2026.3	1891.1
30°	2342.7	2343.4	2332.9	2309.6	2273.3	2231.5	2221.8	2227.4	2215.4	2109.6	1949.7
32.5°	2475.9	2479.7	2468.0	2439.8	2410.6	2359.9	2340.4	2344.1	2314.2	2194.8	2010.1
35°	2592.6	2597.9	2594.1	2575.4	2543.4	2499.9	2476.6	2474.4	2437.2	2299.2	2090.1
37.5°	2711.5	2716.5	2712.3	2696.6	2683.8	2637.7	2625.3	2625.3	2560.7	2405.7	2191.7
40°	2834.0	2841.4	2836.6	2814.8	2803.9	2782.9	2753.3	2746.1	2676.3	2533.7	2357.7
42.5°	2947.7	2957.4	2976.9	2964.2	2942.0	2945.0	2885.4	2881.6	2830.6	2722.8	2565.9
45°	3109.0	3123.3	3156.4	3146.6	3142.0	3125.5	3054.6	3051.2	3031.7	2977.3	2824.5
47.5°	3285.0	3304.6	3364.3	3366.1	3414.5	3383.4	3287.0	3275.3	3279.8	3282.0	3140.2
50°	3447.2	3468.6	3566.5	3612.7	3726.7	3733.5	3579.3	3568.8	3586.5	3638.3	3508.0
52.5°	3576.7	3603.7	3726.0	3868.6	4064.2	4119.8	3939.2	3931.3	3944.5	4033.8	3923.9
55°	3671.6	3700.9	3834.2	4093.9	4406.1	4504.0	4353.6	4346.0	4354.3	4468.0	4376.0
57.5°	3693.8	3700.9	3894.1	4245.4	4694.7	4930.0	4860.6	4845.5	4805.0	4904.1	4875.3
60°	3589.8	3618.3	3844.6	4298.7	4918.0	5350.0	5390.5	5371.8	5258.0	5339.1	5315.9
62.5°	3378.9	3430.0	3659.6	4217.7	5005.5	5693.0	5910.3	5887.8	5691.8	5744.4	5632.6
65°	3034.3	3056.1	3297.4	3938.1	4894.4	5912.5	6373.8	6362.6	6116.0	6033.8	5691.1
67.5°	2418.1	2459.0	2663.9	3353.8	4439.8	5886.6	6732.2	6731.1	6392.9	6141.1	5483.6
69°	1910.3	1952.7	2147.9	2762.6	3928.7	5649.8	6792.3	6805.4	6471.0	6075.8	5187.1
70°	1523.0	1572.2	1706.1	2326.9	3475.0	5337.6	6742.4	6766.0	6456.0	5968.1	4913.5
72.5°	648.2	687.9	783.2	1199.5	2117.9	3985.7	6164.8	6254.1	6108.1	5462.2	4060.8
75°	283.0	295.4	338.5	489.1	940.1	2169.3	4829.4	4994.6	5222.7	4617.0	3024.9
77.5°	207.2	212.4	236.1	287.1	421.8	819.3	3105.7	3201.7	3766.5	3359.7	1855.5
80°	160.2	164.0	182.4	210.9	275.5	331.4	1416.4	1499.0	2117.9	1725.7	772.7
82.5°	127.6	130.2	143.0	155.4	190.3	200.7	470.2	521.7	781.8	476.7	204.6
85°	118.6	121.6	126.1	113.4	121.9	117.8	203.4	212.8	236.1	187.2	85.6
87.5°	53.7	63.4	125.0	88.2	64.9	51.8	83.3	87.1	98.0	98.4	37.9
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°	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2
2.5°	1427.7	1426.6	1428.4	1423.9	1429.6	1429.2	1427.3	1428.1	1431.8	1431.4	1431.8
5°	1436.3	1435.5	1437.8	1434.4	1441.2	1443.4	1443.8	1447.2	1451.4	1452.5	1452.5
7.5°	1458.1	1458.1	1459.2	1454.7	1459.2	1458.8	1456.9	1460.3	1464.5	1464.9	1464.5
10°	1495.6	1496.0	1494.1	1482.5	1478.7	1468.6	1459.2	1459.5	1464.9	1469.0	1470.1
12.5°	1542.9	1541.3	1533.1	1511.7	1496.0	1475.3	1465.6	1465.2	1470.4	1473.8	1474.9
15°	1597.0	1592.8	1571.4	1536.5	1508.7	1488.4	1472.7	1469.0	1466.0	1462.2	1462.5
17.5°	1648.0	1638.6	1602.9	1554.5	1525.2	1498.2	1467.8	1443.4	1426.6	1416.8	1413.8
20°	1699.8	1681.4	1629.9	1571.4	1534.3	1485.1	1426.6	1377.0	1346.2	1331.9	1329.3
22.5°	1747.0	1717.4	1655.1	1589.0	1527.1	1440.8	1348.9	1276.8	1234.0	1214.8	1216.3
25°	1793.2	1752.0	1681.4	1601.4	1491.1	1362.8	1240.7	1152.2	1102.7	1081.2	1080.5
27.5°	1833.8	1786.8	1709.9	1591.3	1423.9	1251.6	1112.8	1026.5	985.2	966.8	963.8
30°	1880.2	1830.8	1747.8	1552.6	1325.6	1123.3	987.8	927.0	897.7	879.4	875.9
32.5°	1937.0	1890.4	1779.0	1482.5	1199.8	989.3	890.2	847.8	821.2	800.6	796.8
35°	2019.5	1969.2	1786.8	1381.9	1061.8	883.5	818.6	775.0	739.0	712.4	709.7
37.5°	2123.1	2067.9	1768.8	1251.6	927.7	814.8	758.8	705.2	658.3	620.8	614.7
40°	2272.5	2189.1	1718.9	1101.6	829.1	761.9	700.7	639.5	581.4	537.4	528.8
42.5°	2451.8	2331.4	1642.3	952.1	756.6	708.2	642.9	567.1	511.5	480.4	475.9
45°	2680.1	2479.3	1536.1	821.5	685.3	654.5	580.6	510.8	476.3	453.4	449.7
47.5°	2940.5	2645.1	1424.6	715.3	624.9	604.2	530.7	485.6	458.2	440.2	436.9
50°	3260.7	2832.5	1306.4	628.2	564.1	543.8	507.0	471.7	450.0	436.2	432.7
52.5°	3621.7	3043.7	1221.3	559.6	513.7	499.1	494.7	464.3	446.6	436.2	432.7
55°	4010.5	3258.7	1129.3	501.8	470.2	474.3	486.4	465.0	453.0	440.2	435.3
57.5°	4399.7	3481.0	1026.8	453.0	435.7	456.0	480.8	466.5	456.4	444.0	439.5
60°	4707.5	3621.7	868.1	412.1	408.3	435.7	467.3	455.2	442.1	442.5	441.7
62.5°	4851.2	3614.2	692.8	375.7	380.9	408.3	445.5	437.6	426.7	441.4	442.5
65°	4770.5	3434.1	539.3	342.6	351.7	379.8	423.0	429.0	432.7	460.8	464.7
67.5°	4432.0	3083.5	417.7	313.7	325.0	360.3	425.3	467.3	472.1	501.8	501.5
69°	4081.9	2754.8	362.9	298.7	311.9	365.2	454.5	491.7	473.2	504.8	500.2
70°	3788.3	2494.7	333.7	288.6	305.9	373.8	474.0	491.3	467.6	494.7	487.1
72.5°	2917.6	1794.7	283.0	269.9	285.6	357.6	479.7	480.4	454.5	459.7	447.0
75°	2001.2	1134.2	247.0	244.3	254.9	322.4	461.6	459.0	420.3	412.9	402.3
77.5°	1103.4	576.1	209.8	219.9	227.0	285.6	419.6	415.8	384.0	368.1	364.4
80°	425.6	252.2	177.2	195.5	200.0	247.3	367.8	364.4	337.8	317.5	311.9
82.5°	160.6	132.1	146.3	169.3	167.8	204.2	311.5	309.6	283.7	254.1	245.1
85°	74.3	79.2	116.0	139.6	128.7	151.3	249.2	252.5	221.1	185.8	185.8
87.5°	31.5	44.2	82.2	105.5	86.7	102.1	182.8	174.5	160.2	111.1	104.3
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)