

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: P527252

Luminaire Tested: **GALN-SA2B-730-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-730-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8742 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

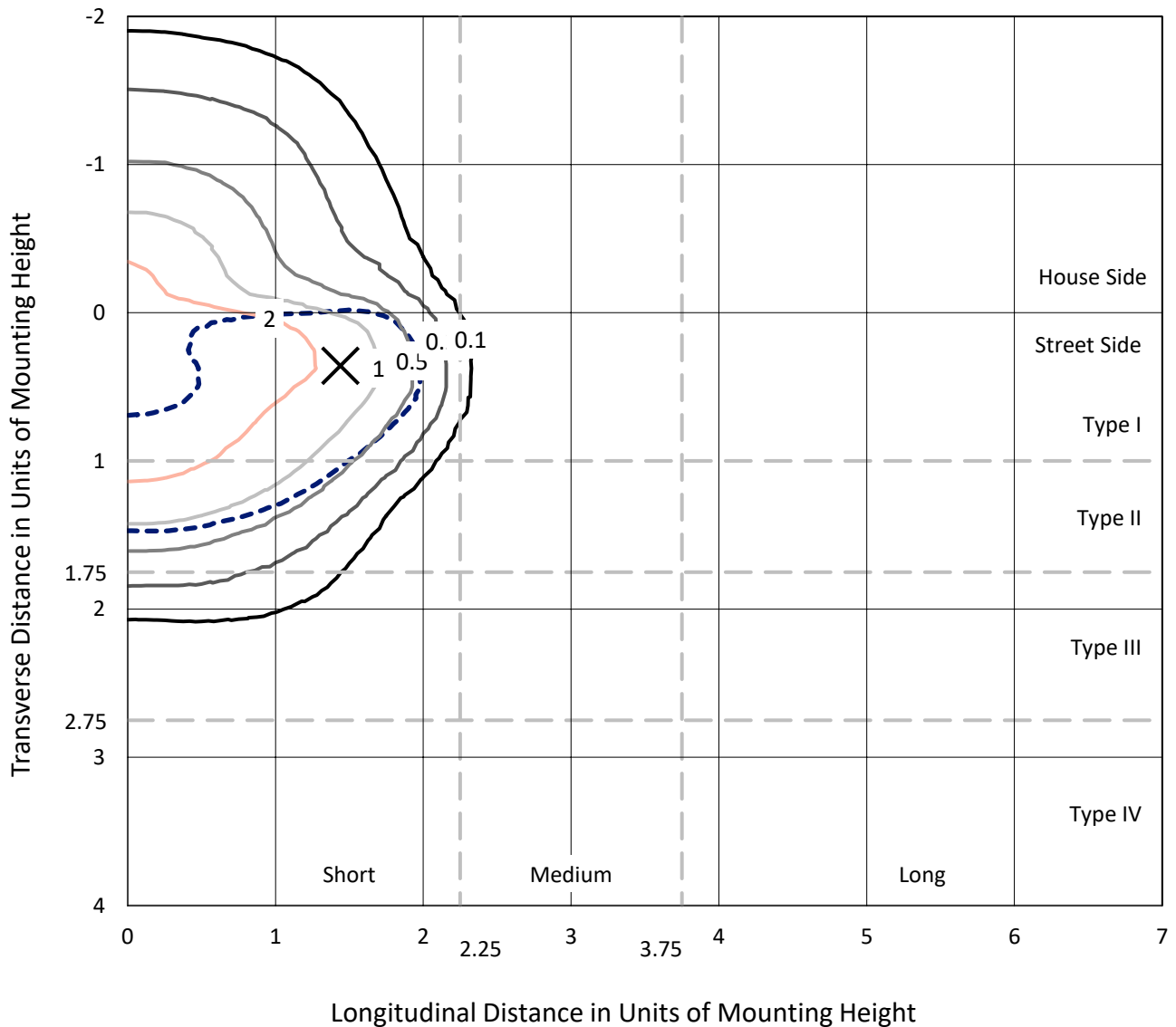
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

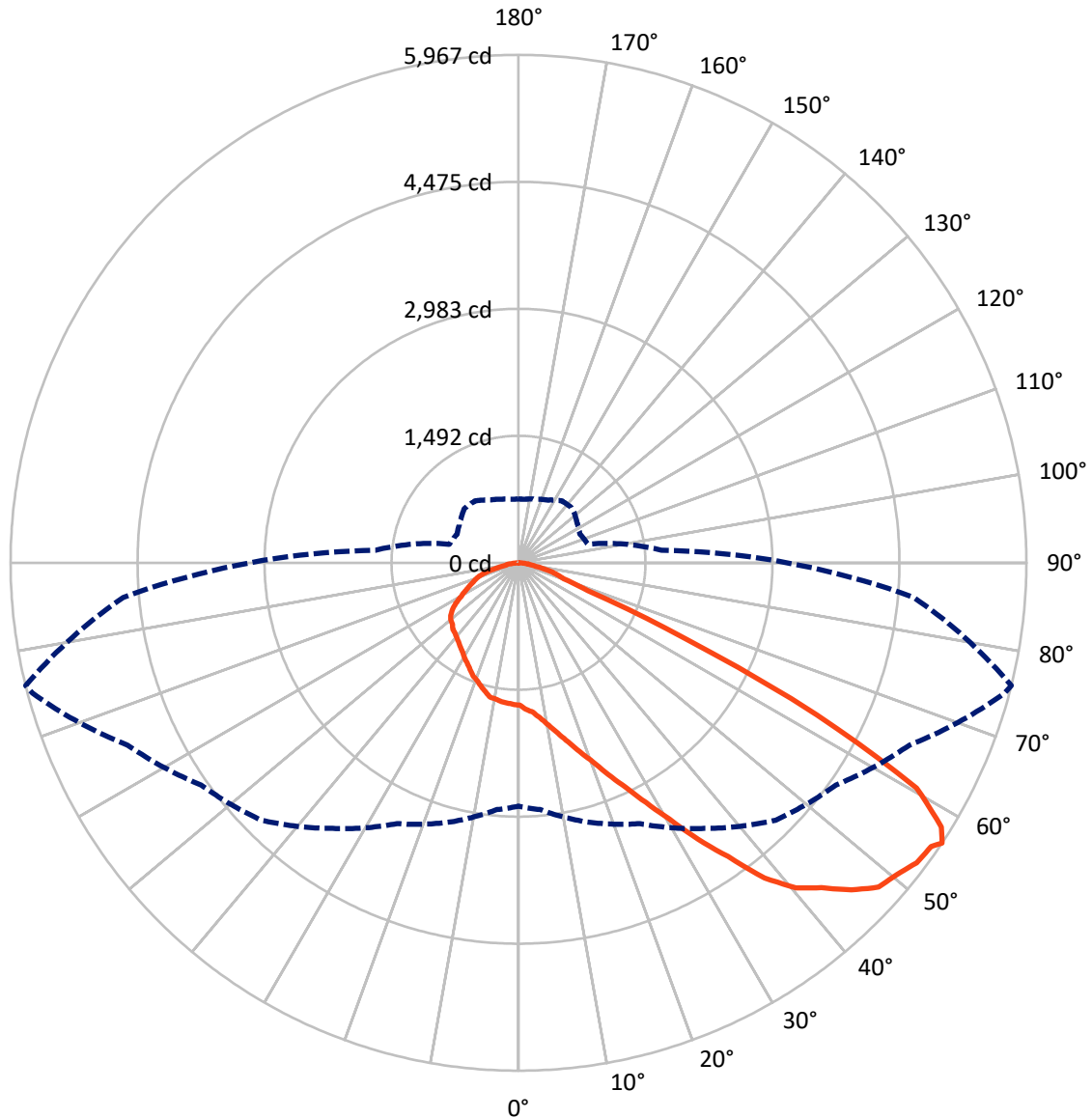
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2350.5	0.0	2350.5
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	6391.5	0.0	6391.5
	% Fixture	73.1	0.0	73.1
Total	Lumens	8742.0	0.0	8742.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.9	1.9
10°-20°	521.1	6.0
20°-30°	911.3	10.4
30°-40°	1426.8	16.3
40°-50°	2075.6	23.7
50°-60°	2281.2	26.1
60°-70°	1018.2	11.6
70°-80°	294.1	3.4
80°-90°	47.7	0.5
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°	8742.0	100.0
0°-180°	8742.0	100.0

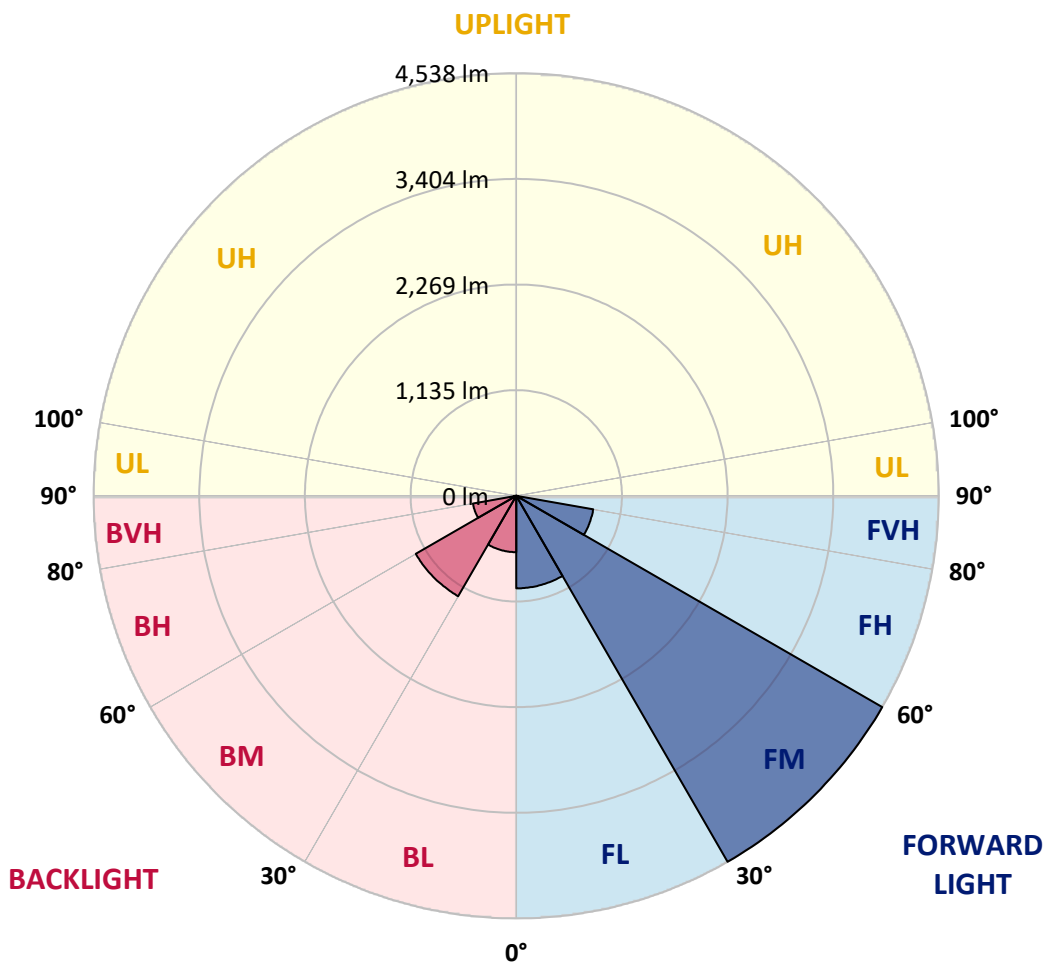


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	993.4	11.4			
FM (30°-60°)	4538.1	51.9			
FH (60°-80°)	839.4	9.6			G1/1800
FVH (80°-90°)	20.5	0.2			G1/100
BL (0°-30°)	604.8	6.9	B2/1000		
BM (30°-60°)	1245.6	14.2	B2/2500		
BH (60°-80°)	472.9	5.4	B1/500		G1/500
BVH (80°-90°)	27.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1672.7	1672.7	1672.7	1672.7	1672.7	1672.7	1672.7	1672.7	1672.7	1672.7	1672.7
2.5°	1842.7	1813.2	1810.9	1803.0	1807.5	1787.1	1765.6	1737.3	1707.8	1725.9	1682.9
5°	1971.8	1932.2	1948.0	1920.9	1924.2	1897.1	1852.9	1820.0	1783.7	1762.2	1731.6
7.5°	2017.2	2020.6	2031.9	2027.4	2004.7	2004.7	1975.2	1917.5	1854.0	1841.5	1790.5
10°	2078.4	2079.5	2067.0	2070.4	2102.2	2087.4	2061.4	2036.4	1954.8	1940.1	1849.5
12.5°	2099.9	2079.5	2099.9	2118.0	2155.4	2175.8	2170.2	2152.0	2064.8	2054.6	1922.0
15°	2103.3	2090.8	2107.8	2148.6	2181.5	2267.6	2310.7	2298.2	2182.6	2183.8	2003.6
17.5°	2087.4	2104.4	2111.2	2146.4	2222.3	2302.8	2427.4	2444.4	2349.2	2334.5	2106.7
20°	2109.0	2096.5	2105.6	2137.3	2238.2	2363.9	2527.1	2639.3	2505.6	2495.4	2213.2
22.5°	2191.7	2174.7	2172.4	2192.8	2265.4	2395.7	2632.5	2834.2	2696.0	2701.7	2345.8
25°	2256.3	2265.4	2257.4	2256.3	2301.6	2443.3	2771.9	3066.6	2954.4	2921.5	2502.2
27.5°	2367.3	2388.9	2373.0	2394.5	2384.3	2514.7	2871.6	3323.8	3233.1	3189.0	2643.9
30°	2521.5	2532.8	2518.1	2518.1	2487.5	2614.4	2962.3	3592.4	3555.0	3494.9	2810.4
32.5°	2724.3	2741.3	2711.9	2694.9	2690.3	2762.9	3125.5	3857.6	3921.0	3870.0	3031.4
35°	2992.9	2982.7	2947.6	2931.7	2870.5	2990.6	3368.0	4162.4	4329.0	4238.3	3298.9
37.5°	3229.7	3213.9	3211.6	3123.2	3138.0	3236.5	3574.3	4393.6	4724.5	4698.4	3581.1
40°	3450.7	3465.5	3489.3	3439.4	3416.7	3525.5	3814.5	4570.4	5031.6	5021.4	3798.6
42.5°	3687.6	3674.0	3715.9	3674.0	3640.0	3794.1	4075.1	4692.8	5301.3	5217.5	4026.4
45°	4031.0	3987.9	4002.6	4006.0	3981.1	4037.8	4182.8	4781.2	5490.6	5481.5	4193.0
47.5°	4317.7	4318.8	4293.9	4274.6	4198.7	4255.3	4302.9	4836.7	5708.2	5693.4	4257.6
50°	4424.2	4409.5	4482.0	4523.9	4528.4	4412.9	4397.0	4867.3	5822.6	5758.0	4322.2
52.5°	4041.2	4054.8	4169.2	4418.5	4562.4	4574.9	4506.9	4930.7	5869.1	5855.5	4374.3
55°	3252.4	3318.1	3506.3	3794.1	4135.2	4510.3	4625.9	4996.5	5894.0	5882.7	4605.5
56°	2859.2	2910.2	3155.0	3380.5	3808.8	4275.7	4551.1	5066.7	5913.3	5966.5	4659.9
57.5°	2301.6	2360.5	2536.2	2792.3	3297.7	3829.2	4344.9	4980.6	5838.5	5858.9	4699.6
60°	1439.2	1444.9	1655.7	1824.5	2180.4	2699.4	3315.9	4333.5	5403.3	5373.8	4221.3
62.5°	944.0	945.1	1136.6	1274.9	1437.0	1555.9	1951.4	2873.9	3986.8	3934.6	3005.4
65°	662.9	677.7	826.1	1010.9	1076.6	1014.3	1001.8	1515.1	2226.8	2152.0	1614.9
67.5°	485.0	486.2	617.6	815.9	911.1	771.7	626.7	740.0	881.7	879.4	747.9
70°	320.7	334.3	435.2	609.7	718.5	619.9	512.2	529.2	561.0	561.0	556.4
72.5°	187.0	199.5	266.3	386.4	403.4	387.6	405.7	453.3	473.7	472.6	466.9
75°	106.5	112.2	126.9	160.9	200.6	236.8	298.0	343.4	363.8	376.2	361.5
77.5°	62.3	65.7	74.8	91.8	104.3	128.1	162.1	193.8	221.0	217.6	219.8
80°	32.9	32.9	41.9	54.4	72.5	90.7	107.7	125.8	140.5	143.9	147.3
82.5°	19.3	20.4	27.2	39.7	52.1	64.6	82.7	95.2	108.8	109.9	112.2
85°	10.2	11.3	17.0	26.1	35.1	39.7	40.8	38.5	41.9	39.7	45.3
87.5°	3.4	3.4	5.7	4.5	4.5	5.7	6.8	6.8	9.1	9.1	9.1
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°	1672.7	1672.7	1672.7	1672.7	1672.7	1672.7	1672.7	1672.7	1672.7	1672.7	1672.7
2.5°	1681.7	1681.7	1662.5	1626.2	1620.5	1605.8	1592.2	1591.1	1580.9	1571.8	1567.3
5°	1713.5	1678.3	1650.0	1617.1	1578.6	1560.5	1540.1	1517.4	1508.3	1517.4	1516.3
7.5°	1749.7	1720.3	1635.3	1574.1	1529.9	1511.7	1489.1	1465.3	1467.6	1467.6	1451.7
10°	1784.9	1745.2	1609.2	1531.0	1466.4	1452.8	1440.4	1449.4	1460.8	1463.0	1452.8
12.5°	1843.8	1754.3	1596.7	1488.0	1447.2	1417.7	1425.6	1450.6	1474.4	1467.6	1475.5
15°	1888.0	1762.2	1540.1	1443.8	1392.8	1406.4	1434.7	1451.7	1491.4	1486.8	1494.8
17.5°	1931.0	1766.7	1484.6	1384.8	1363.3	1400.7	1422.2	1471.0	1483.4	1510.6	1520.8
20°	2019.4	1775.8	1427.9	1348.6	1341.8	1384.8	1422.2	1444.9	1472.1	1495.9	1495.9
22.5°	2064.8	1771.3	1390.5	1301.0	1322.5	1349.7	1383.7	1422.2	1422.2	1444.9	1446.0
25°	2121.4	1753.1	1331.6	1278.3	1294.2	1320.2	1358.8	1345.2	1359.9	1359.9	1378.0
27.5°	2186.0	1714.6	1280.6	1237.5	1269.2	1297.6	1303.2	1294.2	1277.2	1274.9	1268.1
30°	2238.2	1667.0	1243.2	1223.9	1250.0	1265.8	1247.7	1228.4	1199.0	1196.7	1180.8
32.5°	2309.6	1608.1	1196.7	1189.9	1219.4	1220.5	1214.8	1185.4	1142.3	1124.2	1106.0
35°	2429.7	1574.1	1161.6	1171.8	1180.8	1177.4	1167.2	1135.5	1092.4	1084.5	1077.7
37.5°	2518.1	1549.1	1125.3	1137.8	1145.7	1150.2	1119.6	1084.5	1085.6	1069.8	1065.3
40°	2617.8	1533.3	1095.8	1101.5	1102.6	1117.4	1080.0	1063.0	1070.9	1060.7	1067.5
42.5°	2745.9	1537.8	1065.3	1060.7	1082.2	1076.6	1058.5	1035.8	1040.3	1009.7	1014.3
45°	2813.8	1568.4	1047.1	1026.7	1050.5	1049.4	1025.6	1004.1	976.9	917.9	920.2
47.5°	2859.2	1576.3	1004.1	990.5	1015.4	1030.1	1002.9	953.1	914.5	872.6	862.4
50°	2905.6	1591.1	983.7	955.3	965.5	1000.7	966.7	919.1	881.7	844.3	849.9
52.5°	2946.4	1619.4	944.0	902.1	920.2	958.7	940.6	882.8	842.0	811.4	802.3
55°	3127.8	1682.9	877.1	822.7	865.8	914.5	904.3	834.1	789.9	774.0	771.7
56°	3156.1	1685.1	842.0	795.5	835.2	899.8	887.3	812.5	772.9	747.9	749.1
57.5°	3160.6	1657.9	792.1	770.6	804.6	878.3	862.4	795.5	741.1	718.5	711.7
60°	2781.0	1294.2	729.8	716.2	755.9	812.5	806.9	749.1	687.9	661.8	674.3
62.5°	1895.9	948.5	681.1	678.8	699.2	754.7	740.0	687.9	636.9	619.9	612.0
65°	1103.8	719.6	633.5	624.4	641.4	670.9	681.1	626.7	573.4	562.1	558.7
67.5°	651.6	595.0	572.3	557.6	551.9	570.0	578.0	546.2	493.0	477.1	490.7
70°	545.1	529.2	530.4	505.4	491.8	479.4	472.6	444.2	400.0	379.6	374.0
72.5°	470.3	463.5	459.0	436.3	423.8	395.5	366.0	337.7	304.8	287.8	289.0
75°	359.2	357.0	359.2	347.9	326.4	303.7	276.5	240.2	215.3	193.8	198.3
77.5°	214.2	221.0	224.4	219.8	210.8	190.4	173.4	149.6	125.8	108.8	106.5
80°	147.3	153.0	158.7	153.0	143.9	129.2	111.1	92.9	75.9	66.9	64.6
82.5°	112.2	117.9	121.3	115.6	104.3	88.4	75.9	63.5	49.9	40.8	38.5
85°	40.8	46.5	45.3	54.4	58.9	56.7	48.7	37.4	28.3	20.4	19.3
87.5°	11.3	10.2	11.3	11.3	11.3	10.2	9.1	9.1	9.1	5.7	4.5
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)