

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: P451448

Luminaire Tested: **GALN-SA2B-750-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-750-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11201 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

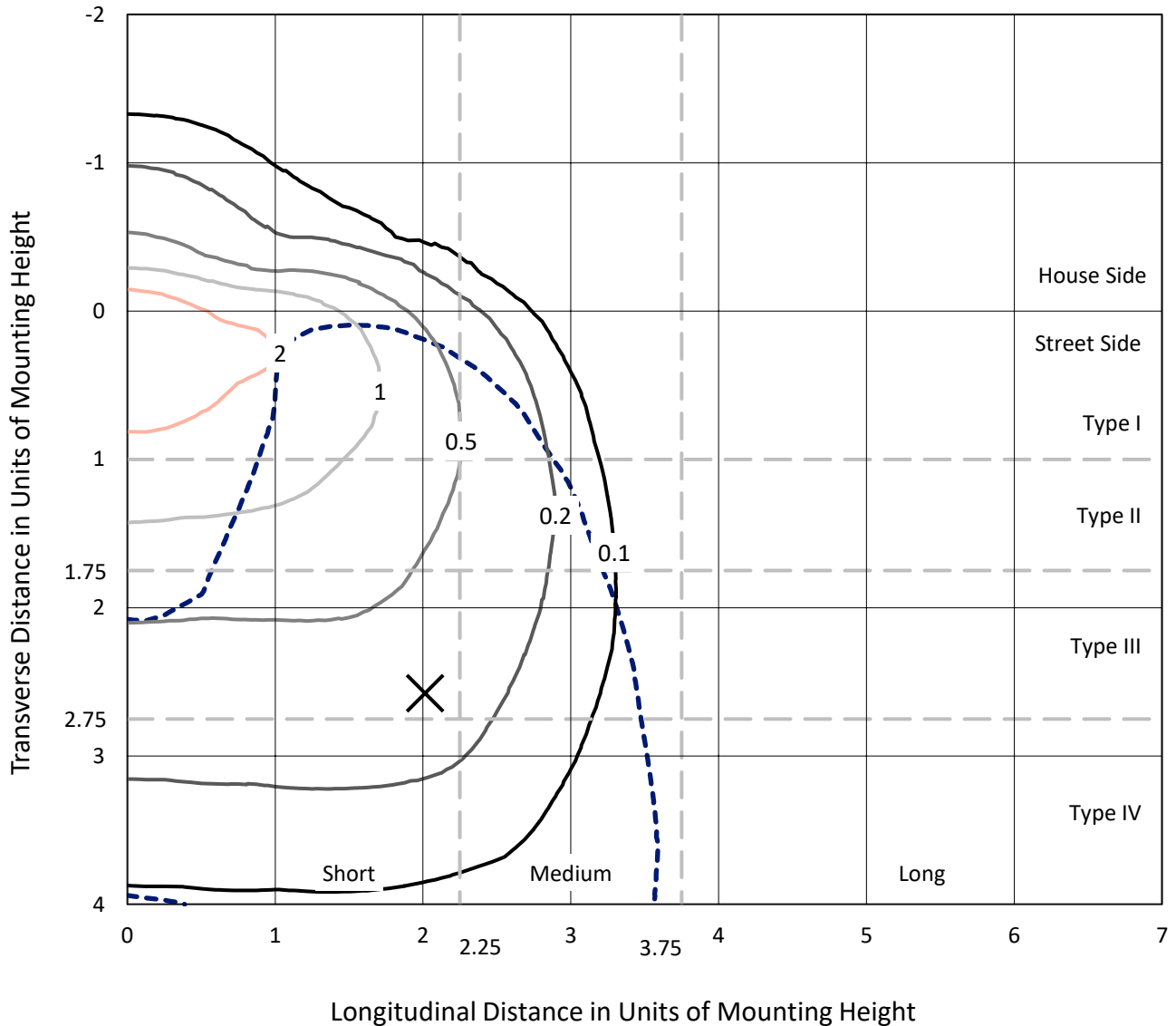
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

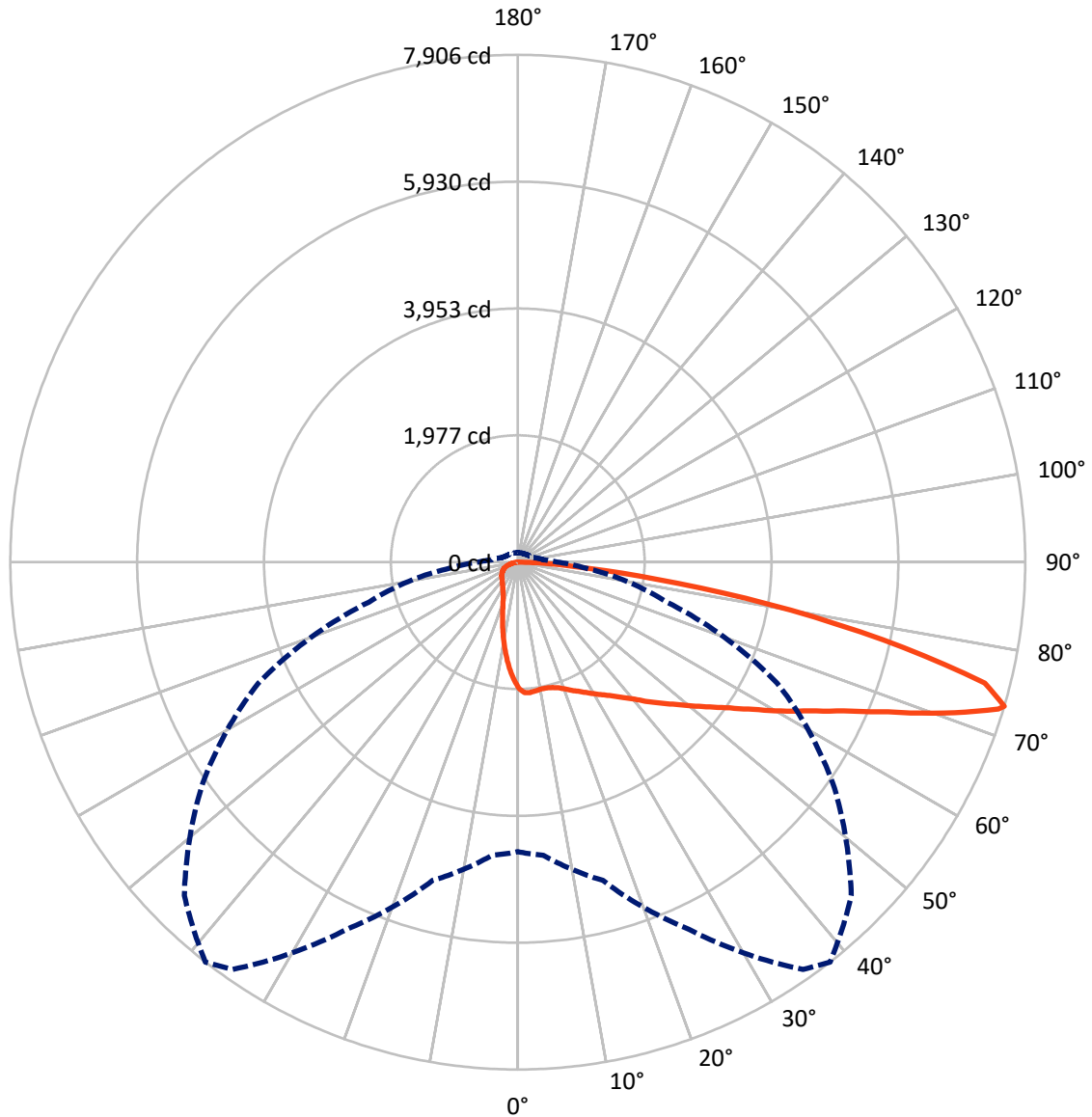
× Max cd
 - - - 1/2 Max cd



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 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1505.7	0.0	1505.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	9695.3	0.0	9695.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	11201.0	0.0	11201.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.8	1.5
10°-20°	440.5	3.9
20°-30°	685.9	6.1
30°-40°	1006.1	9.0
40°-50°	1492.4	13.3
50°-60°	2114.4	18.9
60°-70°	2682.2	23.9
70°-80°	2232.7	19.9
80°-90°	375.1	3.3
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°	11201.0	100.0
0°-180°	11201.0	100.0

Coefficient of Utilization



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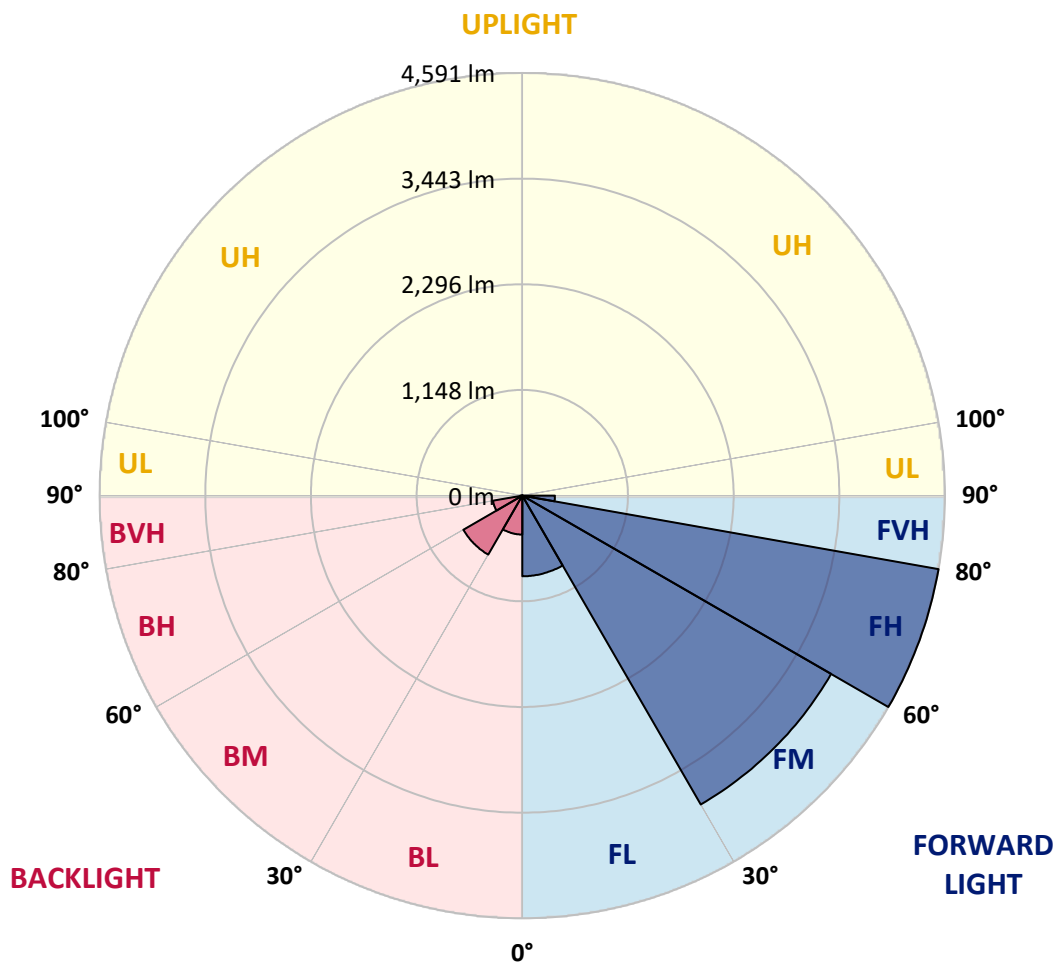
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	875.6	7.8			
FM	(30°-60°)	3873.6	34.6			
FH	(60°-80°)	4591.2	41.0			G2/5000
FVH	(80°-90°)	354.8	3.2			G3/500
BL	(0°-30°)	422.5	3.8	B1/500		
BM	(30°-60°)	739.2	6.6	B1/1000		
BH	(60°-80°)	323.6	2.9	B1/500		G1/500
BVH	(80°-90°)	20.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1967.8	1967.8	1967.8	1967.8	1967.8	1967.8	1967.8	1967.8	1967.8	1967.8	1967.8
2.5°	2046.9	2057.0	2052.0	2045.0	2040.6	2036.1	2029.8	2011.5	1996.9	1981.1	1956.4
5°	2062.1	2068.4	2064.0	2055.1	2045.0	2040.6	2028.5	2004.5	1981.1	1954.5	1917.9
7.5°	2053.2	2055.7	2050.7	2039.9	2031.1	2022.9	2008.9	1982.4	1953.9	1921.7	1873.6
10°	2021.6	2031.1	2031.1	2022.2	2013.4	2008.9	1995.0	1969.7	1943.8	1907.1	1850.2
12.5°	1995.7	2005.8	2014.0	2011.5	2010.8	2010.8	2000.1	1981.1	1950.7	1916.0	1848.3
15°	1977.9	1990.0	2007.7	2017.8	2024.1	2026.0	2021.6	2005.1	1974.2	1933.7	1855.9
17.5°	1974.2	1988.7	2021.0	2043.1	2059.5	2058.9	2057.6	2034.9	2000.7	1959.0	1865.4
20°	1991.2	2010.2	2055.1	2089.9	2113.9	2109.5	2102.6	2072.8	2033.0	1986.2	1874.2
22.5°	2042.5	2062.1	2111.4	2149.4	2172.8	2172.8	2151.9	2112.7	2070.3	2017.8	1886.2
25°	2115.8	2137.3	2189.8	2228.4	2239.2	2231.0	2210.1	2162.6	2113.9	2063.3	1911.5
27.5°	2205.7	2231.6	2280.3	2312.6	2309.4	2303.1	2281.6	2220.8	2172.1	2126.0	1954.5
30°	2317.6	2336.6	2387.2	2394.8	2383.4	2382.1	2351.8	2291.1	2245.5	2210.1	2015.9
32.5°	2423.3	2440.3	2480.8	2484.0	2463.7	2466.3	2437.8	2382.1	2356.2	2343.6	2119.0
35°	2535.2	2544.1	2578.9	2575.1	2561.8	2559.9	2548.5	2495.4	2503.6	2526.4	2265.1
37.5°	2628.8	2646.5	2666.1	2669.3	2668.7	2675.0	2682.6	2657.3	2704.7	2776.2	2456.8
40°	2714.9	2730.0	2759.1	2769.3	2793.9	2806.6	2832.5	2833.1	2942.6	3060.2	2692.7
42.5°	2773.0	2799.0	2853.4	2871.7	2931.8	2969.8	3008.4	3049.5	3208.2	3359.4	2971.0
45°	2823.6	2857.8	2948.3	3005.2	3086.8	3133.0	3214.6	3300.6	3528.9	3726.9	3253.8
47.5°	2900.2	2930.5	3034.3	3134.9	3258.2	3311.3	3433.4	3561.8	3860.4	4077.3	3524.5
50°	3006.5	3024.8	3130.4	3294.3	3451.8	3520.1	3681.4	3866.7	4214.6	4423.3	3762.3
52.5°	3142.4	3150.0	3234.2	3452.4	3659.9	3744.6	3958.4	4174.8	4524.5	4723.8	3950.8
55°	3303.1	3290.5	3356.2	3620.0	3897.7	4008.4	4238.0	4486.6	4873.1	4966.7	4088.1
57.5°	3461.9	3442.3	3494.8	3823.7	4191.2	4324.7	4592.2	4807.9	5184.3	5193.8	4184.2
60°	3630.1	3615.6	3678.2	4062.8	4551.1	4709.2	4956.6	5141.3	5485.4	5351.9	4199.4
62.5°	3802.8	3779.4	3868.6	4331.6	4956.6	5100.2	5339.9	5495.5	5780.8	5410.7	4053.3
65°	3970.4	3959.7	4097.6	4651.1	5418.3	5581.5	5814.3	5919.9	6017.3	5322.2	3690.9
67.5°	4148.8	4170.3	4390.4	5077.4	6020.5	6225.4	6476.6	6377.2	6085.0	4902.8	3108.3
70°	4420.8	4434.7	4775.0	5635.9	6796.6	7043.9	7165.4	6539.8	5758.6	4106.4	2336.6
72.5°	4537.8	4599.2	5118.5	6222.3	7678.4	7829.6	7396.9	6177.4	4797.2	2789.5	1227.8
73°	4511.9	4585.3	5134.3	6311.5	7747.3	7906.1	7347.6	5990.8	4459.4	2402.4	1052.5
75°	4188.7	4279.1	4928.7	6236.8	7613.2	7518.3	6554.4	5105.8	3013.4	1092.4	479.5
77.5°	3305.0	3330.9	3905.3	5036.3	5995.2	5819.4	4905.3	3191.2	1230.9	406.1	272.0
80°	1657.9	1753.4	2201.2	2885.0	4009.0	3951.5	3096.3	1509.2	513.0	238.5	180.3
82.5°	797.6	865.3	1072.2	1406.8	2215.1	2162.6	1533.3	824.8	325.8	139.2	106.3
85°	513.6	564.2	682.5	671.1	910.9	869.7	688.8	624.3	192.9	72.7	74.0
87.5°	339.0	371.3	445.3	356.1	331.4	299.8	304.3	351.7	38.0	27.8	10.1
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°	1967.8	1967.8	1967.8	1967.8	1967.8	1967.8	1967.8	1967.8	1967.8	1967.8	1967.8
2.5°	1946.3	1938.1	1910.9	1884.3	1859.0	1835.0	1819.2	1798.3	1784.4	1788.2	1793.9
5°	1897.6	1879.3	1831.2	1784.4	1740.1	1687.6	1645.2	1611.1	1585.1	1575.7	1573.8
7.5°	1846.4	1815.4	1746.4	1666.1	1590.8	1525.7	1450.4	1413.1	1369.4	1354.3	1349.2
10°	1815.4	1773.6	1676.9	1564.9	1451.7	1343.5	1261.9	1195.5	1135.4	1124.0	1118.3
12.5°	1806.5	1751.5	1621.2	1477.0	1326.4	1193.6	1072.8	985.5	927.3	914.0	894.4
15°	1801.5	1733.2	1569.3	1388.4	1197.4	1035.5	908.3	806.5	753.4	717.9	718.6
17.5°	1797.0	1712.3	1511.1	1291.6	1086.1	899.5	759.0	667.3	618.6	599.6	597.7
20°	1790.7	1687.6	1444.1	1189.8	958.9	775.5	648.4	580.0	547.1	531.3	530.7
22.5°	1788.2	1663.6	1378.3	1086.1	846.3	680.0	575.0	526.9	506.0	495.3	495.3
25°	1794.5	1646.5	1309.4	987.4	746.4	598.4	524.4	491.5	479.5	473.8	471.9
27.5°	1814.1	1638.9	1241.0	888.7	654.7	542.7	490.2	467.4	458.6	454.2	454.8
30°	1851.4	1638.3	1174.0	791.3	586.4	500.3	463.0	447.2	440.2	437.7	437.1
32.5°	1911.5	1652.2	1108.2	711.0	528.8	464.9	437.7	426.3	423.2	421.3	420.6
35°	2013.4	1691.4	1043.1	637.6	484.5	433.3	413.7	408.0	403.6	405.5	406.1
37.5°	2150.6	1759.1	981.1	580.0	451.0	409.9	393.4	388.4	385.8	387.7	389.6
40°	2334.7	1856.5	929.2	533.9	427.0	390.3	375.7	371.3	368.8	371.9	372.6
42.5°	2537.7	1969.1	886.2	497.8	407.4	373.8	359.9	354.9	353.0	354.9	355.5
45°	2746.5	2100.0	864.0	471.9	390.9	361.8	347.3	341.6	337.1	335.9	337.8
47.5°	2952.1	2213.9	863.4	456.1	377.6	351.1	335.2	328.9	323.2	320.1	319.4
50°	3119.7	2304.3	878.6	449.1	366.2	339.0	323.2	316.9	309.3	303.0	304.3
52.5°	3246.2	2363.2	885.6	445.9	359.9	326.4	310.6	304.9	296.0	287.8	287.8
55°	3327.8	2377.1	868.5	442.8	354.9	313.1	296.0	291.0	282.1	273.9	273.9
57.5°	3355.6	2334.1	807.1	435.2	349.8	301.7	281.5	277.1	270.1	261.9	260.6
60°	3291.1	2188.6	699.6	412.4	339.7	289.7	265.7	263.8	261.2	254.3	253.6
62.5°	3042.5	1879.9	582.6	382.7	322.6	277.1	251.1	254.3	256.2	252.4	251.8
65°	2628.8	1526.3	497.8	341.6	299.8	259.3	235.3	243.5	248.6	248.6	247.3
67.5°	2132.3	1172.1	419.4	306.1	271.4	235.3	217.6	223.9	227.7	226.4	229.6
70°	1515.6	793.8	341.6	265.7	235.3	208.1	194.8	194.8	192.3	191.0	191.0
72.5°	735.0	453.5	277.1	222.0	200.5	177.7	167.0	162.6	157.5	156.9	153.7
73°	614.2	406.7	264.4	213.8	192.3	173.3	161.3	154.3	151.2	148.6	148.0
75°	373.8	308.7	220.8	180.3	163.8	149.3	138.5	132.2	129.0	127.1	126.5
77.5°	246.1	230.2	171.4	137.9	125.2	116.4	112.0	105.6	103.7	101.2	101.2
80°	183.4	175.8	122.7	97.4	89.8	82.2	81.0	79.7	74.6	71.5	70.2
82.5°	118.3	125.2	83.5	65.2	56.9	50.6	51.2	53.1	48.1	43.6	42.4
85°	84.1	90.5	50.6	29.7	24.0	20.9	23.4	20.9	21.5	17.1	13.9
87.5°	13.9	24.0	8.9	3.8	1.9	1.3	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)