

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: P950557

Luminaire Tested: **GALN-SB5A-722-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-722-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14306 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 141.7
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

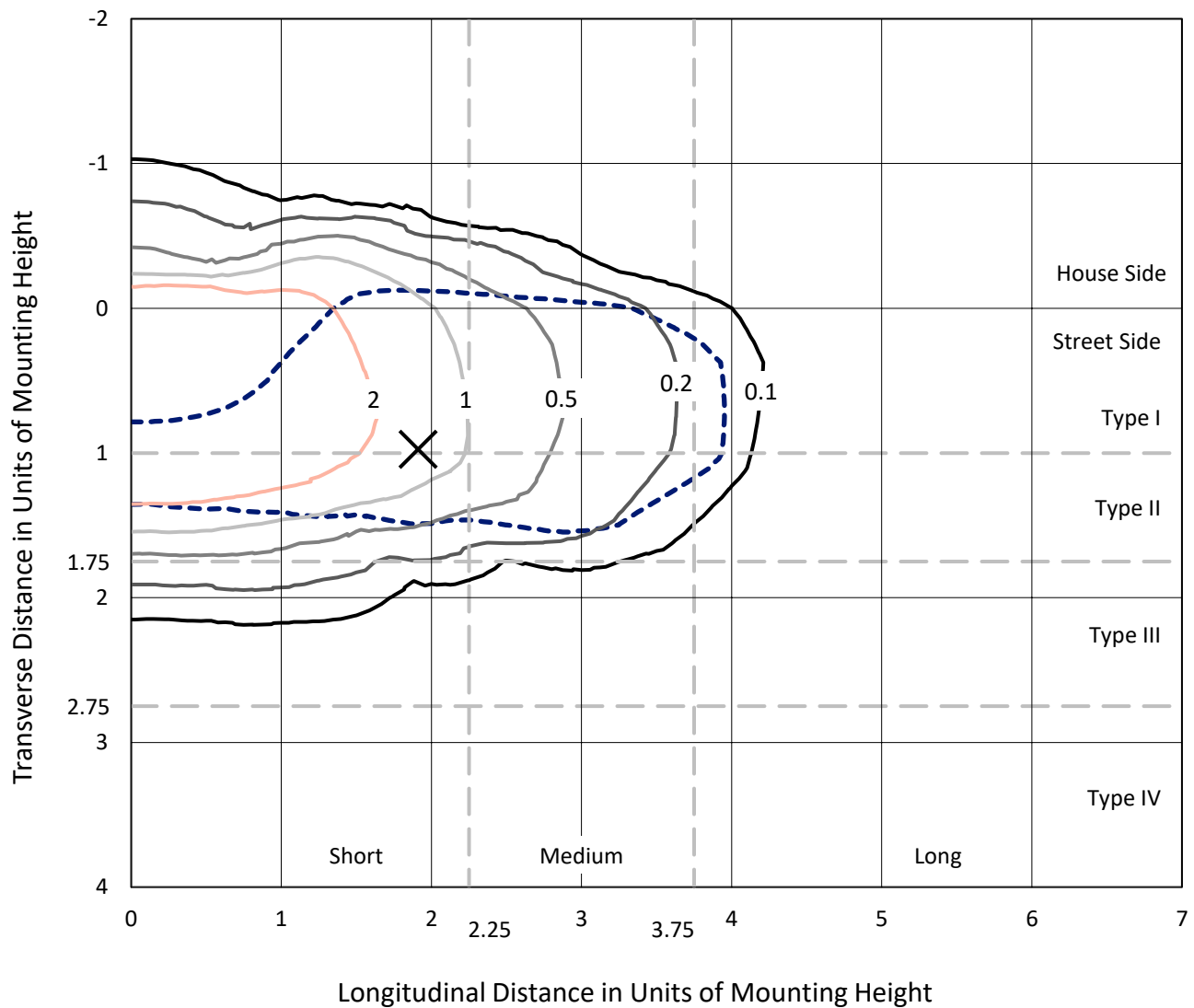


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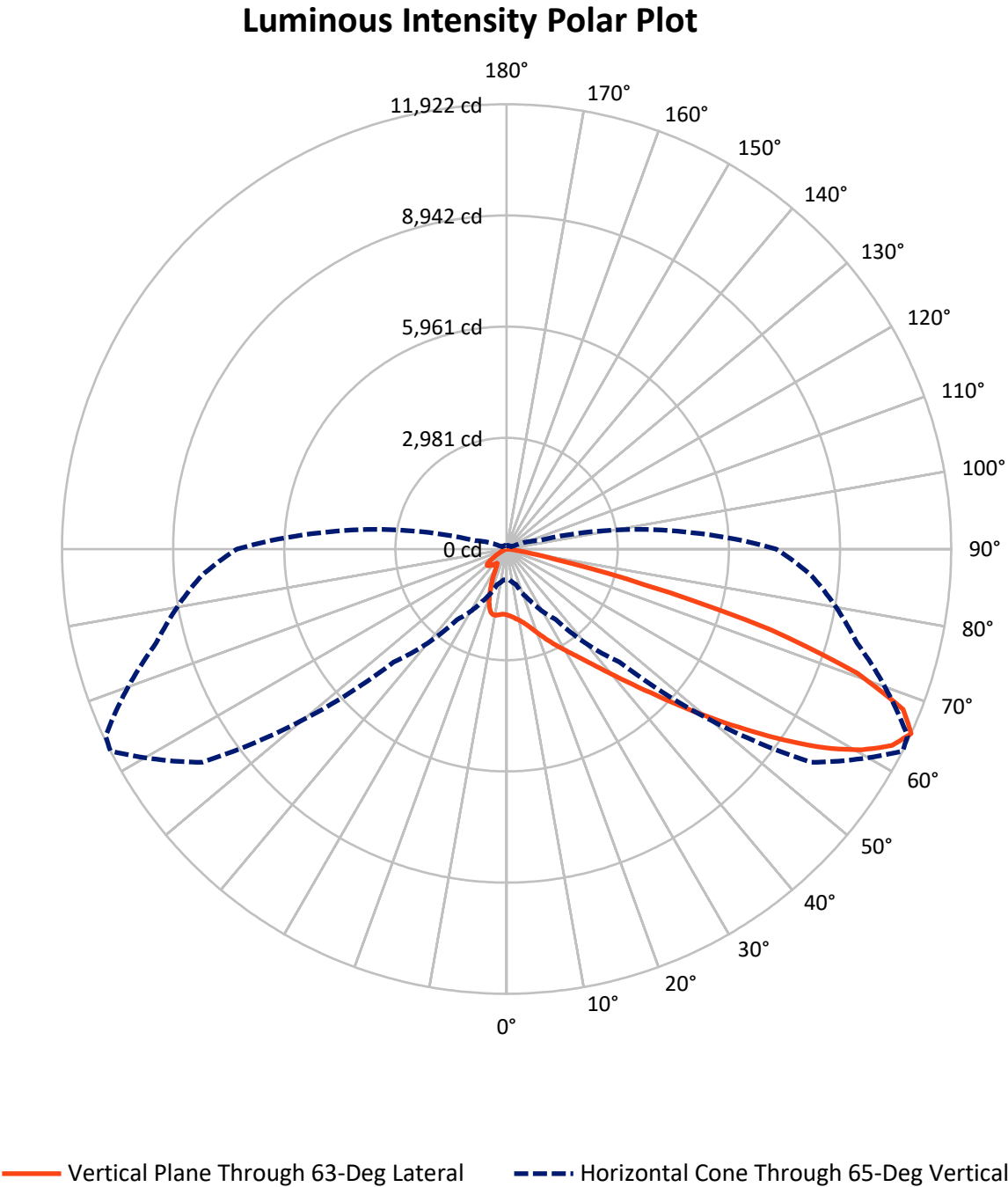
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2102.9	0.0	2102.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	12203.1	0.0	12203.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	14306.0	0.0	14306.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.4	1.2
10°-20°	461.6	3.2
20°-30°	803.7	5.6
30°-40°	1448.6	10.1
40°-50°	2873.1	20.1
50°-60°	3913.6	27.4
60°-70°	3123.8	21.8
70°-80°	1413.6	9.9
80°-90°	101.6	0.7
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°	14306.0	100.0
0°-180°	14306.0	100.0

Coefficient of Utilization



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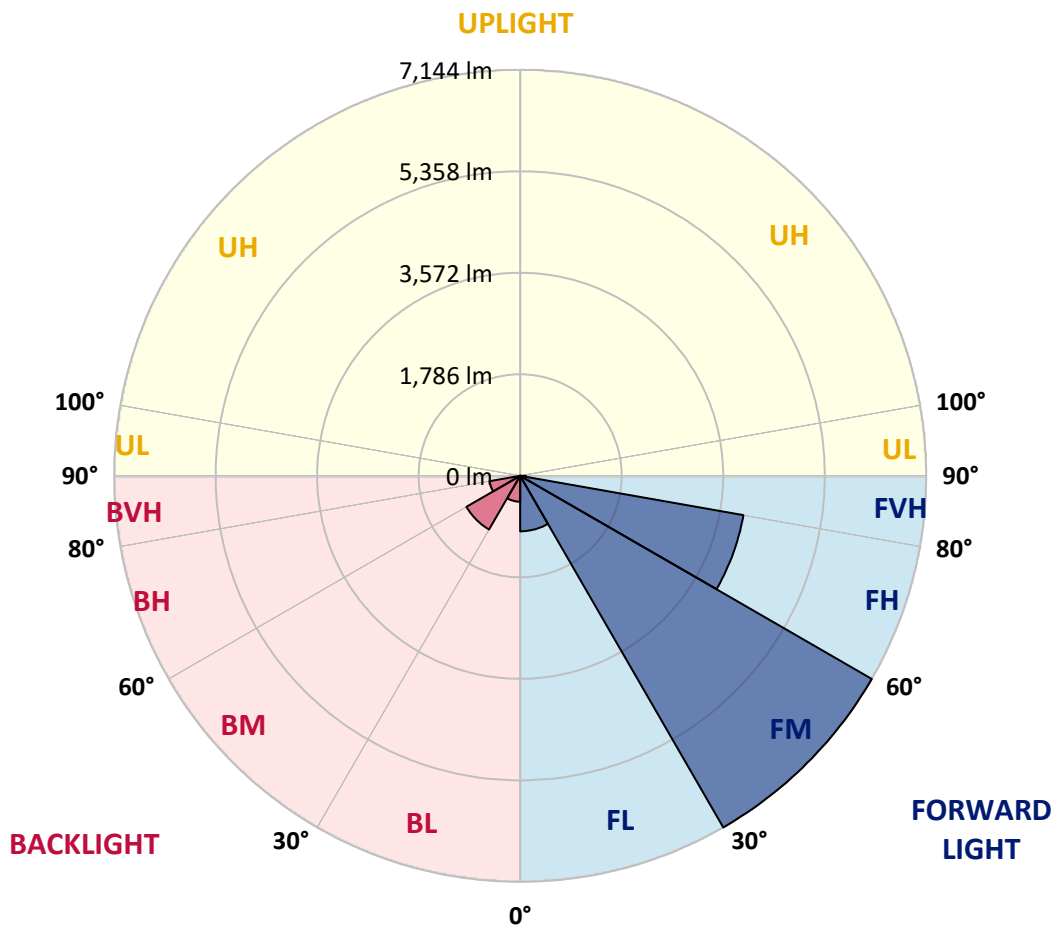
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	976.6	6.8			
FM	(30°-60°)	7144.1	49.9			
FH	(60°-80°)	3988.4	27.9			G2/5000
FVH	(80°-90°)	94.1	0.7			G1/100
BL	(0°-30°)	455.1	3.2	B1/500		
BM	(30°-60°)	1091.3	7.6	B2/2500		
BH	(60°-80°)	549.0	3.8	B2/1000		G2/1000
BVH	(80°-90°)	7.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1765.6	1765.6	1765.6	1765.6	1765.6	1765.6	1765.6	1765.6	1765.6	1765.6	1765.6
2.5°	1807.0	1802.0	1808.9	1806.0	1804.0	1800.1	1798.1	1796.1	1792.2	1789.3	1777.4
5°	1811.9	1808.9	1815.8	1821.7	1827.6	1833.5	1836.5	1840.4	1836.5	1828.6	1816.8
7.5°	1770.6	1768.6	1783.3	1801.1	1827.6	1850.3	1874.9	1888.7	1889.6	1886.7	1873.9
10°	1767.6	1762.7	1777.4	1799.1	1833.5	1873.9	1917.2	1946.7	1950.7	1963.5	1949.7
12.5°	1813.9	1808.9	1829.6	1853.2	1888.7	1931.0	1984.1	2025.5	2031.4	2049.1	2039.2
15°	1891.6	1884.7	1908.3	1938.8	1984.1	2032.3	2088.4	2125.8	2130.8	2152.4	2134.7
17.5°	1982.2	1975.3	2002.8	2035.3	2084.5	2150.4	2215.4	2256.7	2262.6	2276.4	2243.9
20°	2098.3	2089.4	2111.1	2140.6	2192.8	2271.5	2349.3	2408.3	2407.3	2407.3	2354.2
22.5°	2233.1	2219.3	2238.0	2261.7	2310.9	2406.3	2509.7	2579.6	2579.6	2552.0	2464.4
25°	2377.8	2364.0	2384.7	2406.3	2449.6	2557.9	2679.0	2765.6	2769.5	2722.3	2582.5
27.5°	2558.9	2541.2	2556.9	2582.5	2608.1	2718.3	2862.0	2962.4	2964.4	2891.5	2694.7
30°	2907.3	2857.1	2807.9	2780.3	2792.1	2901.4	3054.9	3166.1	3176.0	3075.6	2816.7
32.5°	3545.0	3535.2	3362.0	3135.6	3017.5	3098.2	3270.5	3404.3	3410.2	3281.3	2975.2
35°	4536.1	4524.3	4245.8	3814.7	3429.9	3362.0	3532.2	3690.7	3686.8	3541.1	3180.9
37.5°	5719.1	5708.3	5341.2	4764.4	4141.5	3760.6	3869.8	4036.1	4060.8	3869.8	3446.6
40°	6729.9	6689.5	6457.2	5901.2	5086.3	4422.0	4350.1	4460.3	4485.9	4259.6	3784.2
42.5°	7495.6	7461.1	7343.0	6995.6	6229.9	5400.2	4916.0	4958.3	4986.9	4715.2	4172.0
45°	7892.2	7884.3	7931.6	7899.1	7395.2	6600.9	5725.0	5548.8	5559.7	5220.1	4611.9
47.5°	7948.3	7944.4	8159.9	8465.0	8397.1	7955.2	6763.3	6285.0	6246.6	5790.0	5090.2
50°	7617.6	7609.7	8023.1	8594.9	9066.3	9092.9	7942.4	7114.7	7030.0	6379.5	5589.2
52.5°	6561.6	6559.6	7238.7	8190.4	9301.5	10088.9	9107.7	8026.0	7884.3	7003.5	6116.7
55°	5048.9	5085.3	5863.8	6988.7	8872.4	10568.2	10153.9	9037.8	8820.3	7631.4	6602.9
57.5°	3576.5	3629.7	4399.3	5401.2	7541.8	10284.7	10861.5	10051.5	9817.3	8257.3	7096.0
60°	1921.1	1968.4	2739.0	3934.8	5610.8	9227.7	11234.5	10931.4	10709.9	8851.8	7540.8
62.5°	1144.6	1160.4	1479.2	2540.2	3795.0	7049.7	11076.0	11601.6	11419.5	9350.8	7927.6
65°	821.8	824.7	985.2	1551.1	2304.0	4283.2	9964.9	11922.4	11866.3	9726.7	8214.0
67.5°	691.9	689.9	756.8	1030.4	1569.8	2145.5	7637.3	11468.7	11706.9	9964.9	8376.4
70°	593.5	596.4	675.2	754.9	1180.0	1214.5	3797.0	9985.6	10493.4	10027.9	8366.6
72.5°	441.9	451.7	524.6	687.9	890.7	835.6	1310.9	7404.0	8322.3	9448.2	7932.5
75°	312.0	316.9	369.1	578.7	664.3	608.2	669.2	3827.5	5004.6	7243.6	6492.7
77.5°	240.1	249.0	279.5	404.5	654.5	427.1	409.4	1324.7	2035.3	4375.7	4451.5
80°	129.9	145.7	201.8	292.3	459.6	302.1	202.7	527.5	689.9	2046.1	1716.4
82.5°	66.9	74.8	140.7	210.6	261.8	263.8	100.4	219.5	284.4	631.8	235.2
85°	26.6	32.5	94.5	116.1	134.8	129.9	45.3	88.6	102.4	175.2	71.8
87.5°	5.9	9.8	34.4	26.6	25.6	27.6	10.8	20.7	19.7	20.7	12.8
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°	1765.6	1765.6	1765.6	1765.6	1765.6	1765.6	1765.6	1765.6	1765.6	1765.6	1765.6
2.5°	1776.5	1772.5	1761.7	1749.9	1736.1	1728.2	1723.3	1722.3	1715.4	1710.5	1715.4
5°	1806.0	1802.0	1781.4	1756.8	1730.2	1709.5	1689.8	1672.1	1646.5	1641.6	1639.7
7.5°	1865.0	1854.2	1820.7	1787.3	1737.1	1677.1	1604.2	1520.6	1445.8	1423.1	1412.3
10°	1937.9	1923.1	1880.8	1821.7	1710.5	1547.1	1371.0	1207.6	1077.7	1041.3	1027.5
12.5°	2020.5	2007.7	1951.6	1842.4	1599.3	1303.1	1033.4	830.7	704.7	673.2	664.3
15°	2119.0	2100.3	2022.5	1810.9	1400.5	990.1	709.6	589.5	544.3	538.4	532.4
17.5°	2223.3	2192.8	2085.5	1697.7	1132.8	703.7	548.2	513.7	494.1	488.2	485.2
20°	2318.7	2279.4	2122.9	1526.5	846.4	548.2	491.1	468.5	450.8	443.9	439.9
22.5°	2414.2	2358.1	2122.9	1293.2	634.8	486.2	450.8	430.1	409.4	400.6	395.6
25°	2513.6	2438.8	2085.5	1033.4	510.8	445.8	412.4	389.7	372.0	361.2	357.3
27.5°	2610.1	2506.7	1999.9	787.3	454.7	410.4	376.9	355.3	338.6	330.7	330.7
30°	2701.6	2573.6	1879.8	597.4	418.3	376.0	344.5	325.8	309.0	301.2	302.1
32.5°	2825.6	2658.3	1751.9	490.1	386.8	343.5	314.9	297.2	282.5	276.6	276.6
35°	2997.8	2783.3	1641.6	481.3	360.2	316.9	288.4	271.6	256.9	252.0	252.0
37.5°	3241.9	2985.0	1583.6	540.3	338.6	293.3	266.7	249.0	235.2	231.3	230.3
40°	3543.1	3258.6	1615.1	599.4	323.8	272.6	247.0	229.3	217.5	212.6	211.6
42.5°	3900.3	3596.2	1789.3	644.6	314.0	254.9	228.3	208.6	200.8	198.8	198.8
45°	4310.7	3967.3	2056.0	692.9	298.2	238.2	209.6	194.9	189.0	188.0	187.0
47.5°	4777.2	4374.7	2365.0	752.9	282.5	222.4	194.9	185.0	180.1	178.1	178.1
50°	5239.8	4785.1	2682.9	786.4	269.7	207.7	183.1	175.2	171.2	170.3	170.3
52.5°	5724.0	5207.3	2939.8	754.9	258.8	195.9	173.2	167.3	163.4	162.4	162.4
55°	6185.6	5548.8	2984.1	640.7	237.2	184.0	162.4	159.4	154.5	154.5	153.5
57.5°	6583.2	5720.1	2671.1	470.4	215.5	166.3	151.6	148.6	144.7	143.7	142.7
60°	6948.4	5670.9	2061.9	316.9	191.9	148.6	137.8	135.8	131.9	127.0	126.0
62.5°	7154.1	5454.4	1410.3	206.7	168.3	129.9	122.0	121.1	112.2	102.4	100.4
65°	7231.8	5009.5	879.9	150.6	140.7	111.2	105.3	103.3	90.5	79.7	78.7
67.5°	7163.9	4277.3	443.9	119.1	111.2	92.5	86.6	86.6	77.8	67.9	66.9
70°	6892.3	3206.5	187.0	95.5	85.6	70.9	70.9	74.8	65.9	55.1	54.1
72.5°	6302.7	2157.3	99.4	72.8	64.0	50.2	58.1	61.0	52.2	41.3	41.3
75°	5010.5	1315.9	68.9	54.1	40.4	35.4	44.3	46.3	35.4	27.6	26.6
77.5°	3426.9	755.9	46.3	34.4	25.6	20.7	30.5	28.5	18.7	12.8	13.8
80°	1504.8	314.9	26.6	15.7	9.8	7.9	10.8	7.9	5.9	3.9	3.9
82.5°	176.2	73.8	9.8	5.9	3.9	2.0	1.0	0.0	0.0	0.0	0.0
85°	36.4	8.9	4.9	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.9	2.0	1.0	0.0	0.0	0.0	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)