

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: P948081

Luminaire Tested: **GALN-SB3B-727-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3B-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13047 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 109.2
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

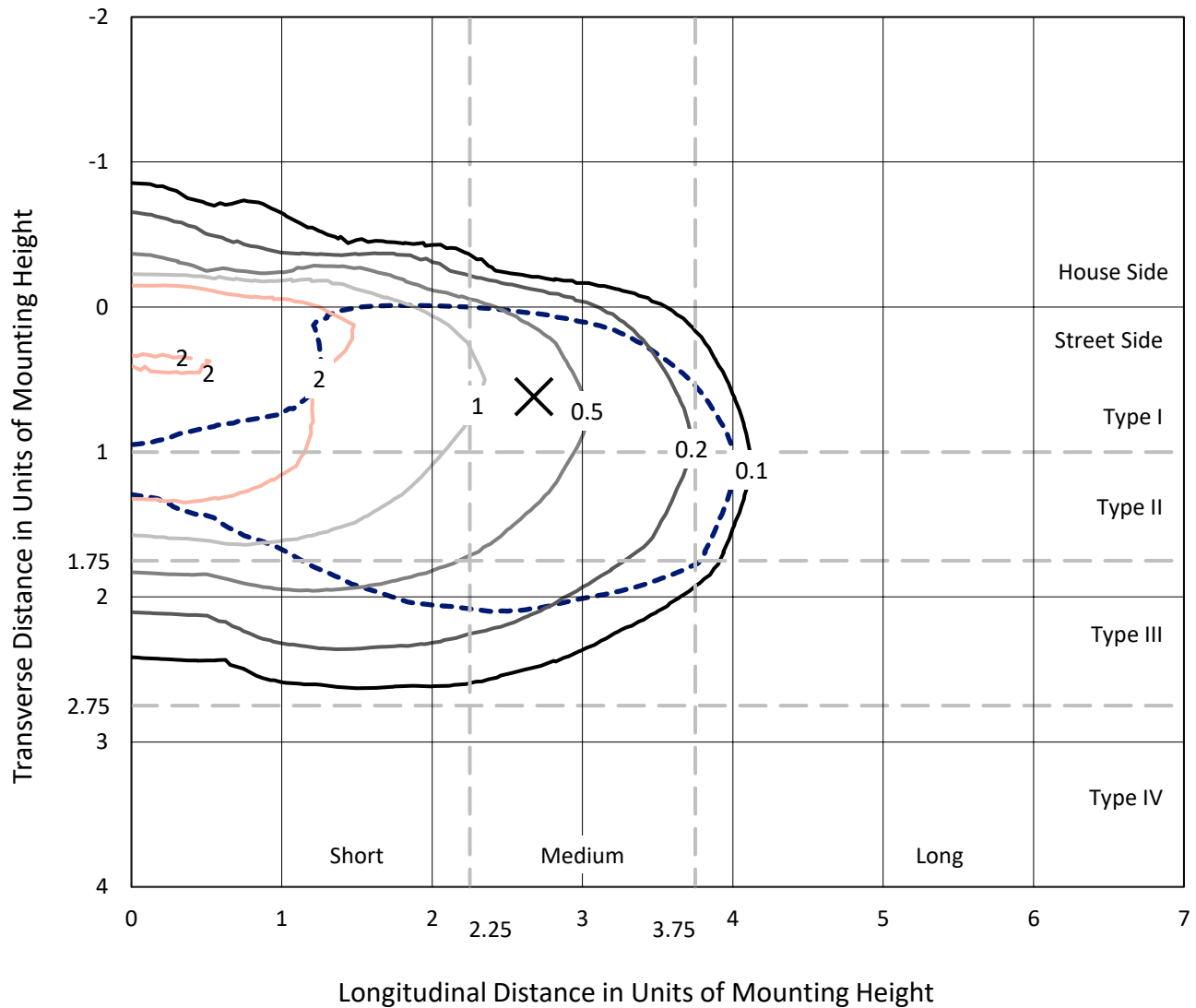


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Iso-Footcandle Lines of Horizontal Illumination

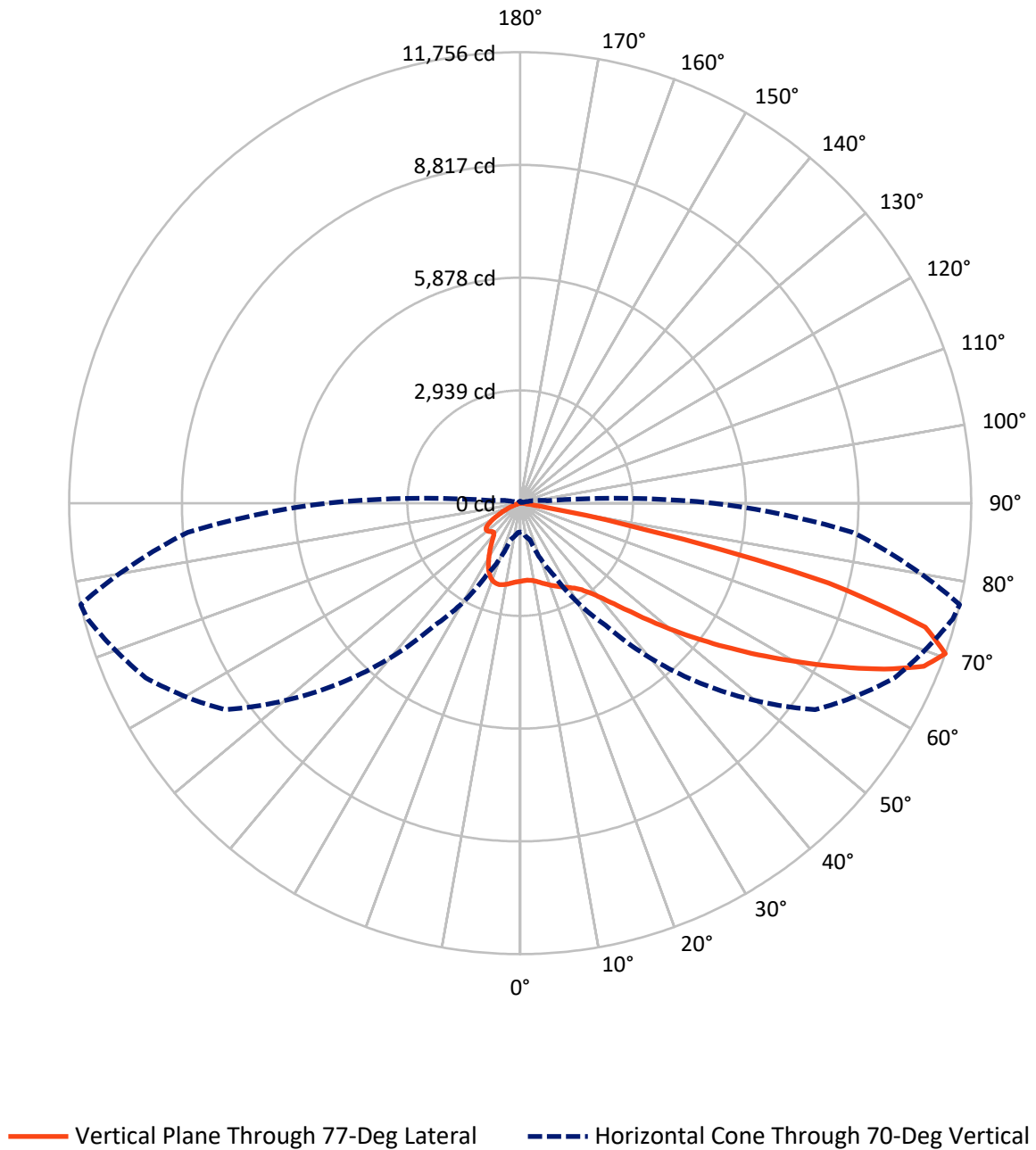
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1375.3	0.0	1375.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	11671.7	0.0	11671.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	13047.0	0.0	13047.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.4	1.3
10°-20°	416.4	3.2
20°-30°	644.0	4.9
30°-40°	1168.6	9.0
40°-50°	2205.8	16.9
50°-60°	3187.2	24.4
60°-70°	3392.7	26.0
70°-80°	1797.9	13.8
80°-90°	59.0	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°	13047.0	100.0
0°-180°	13047.0	100.0

Coefficient of Utilization



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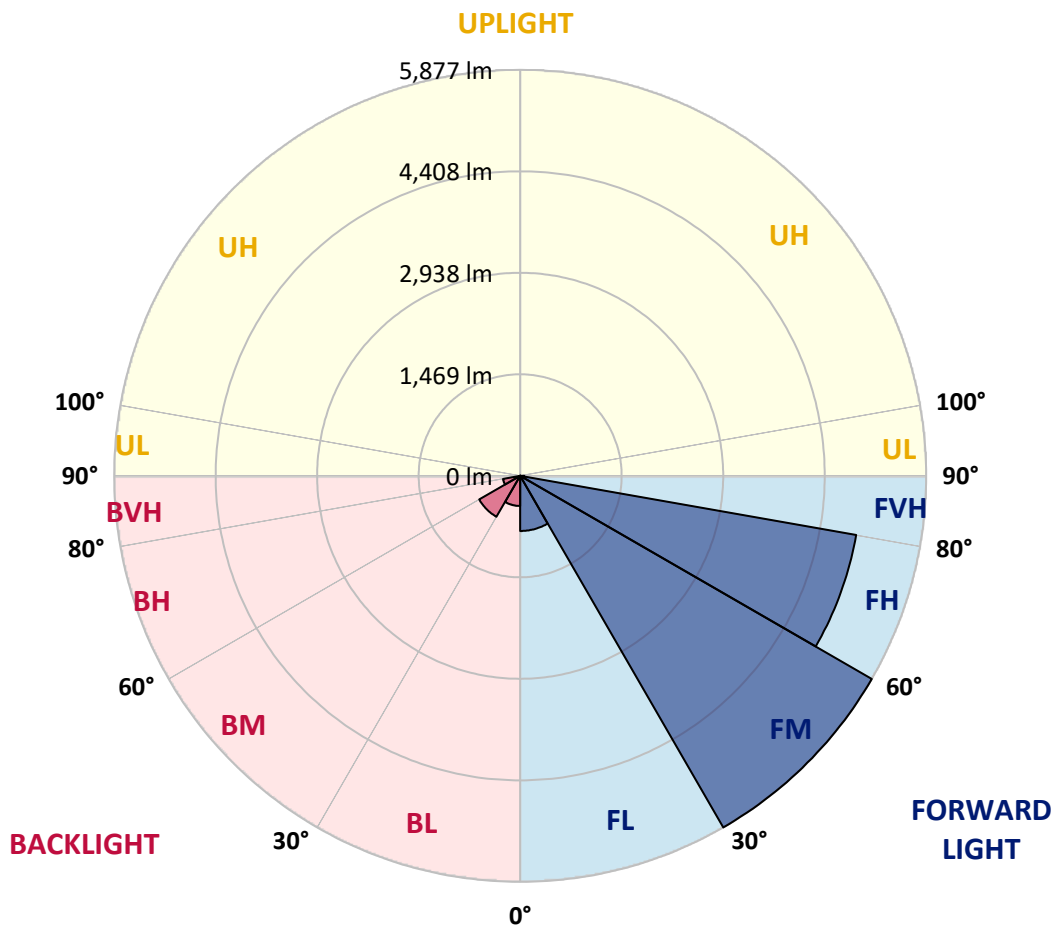
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	798.8	6.1			
FM	(30°-60°)	5877.0	45.0			
FH	(60°-80°)	4938.5	37.9			G2/5000
FVH	(80°-90°)	57.4	0.4			G1/100
BL	(0°-30°)	437.0	3.3	B1/500		
BM	(30°-60°)	684.6	5.2	B1/1000		
BH	(60°-80°)	252.1	1.9	B1/500		G1/500
BVH	(80°-90°)	1.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2035.1	2035.1	2035.1	2035.1	2035.1	2035.1	2035.1	2035.1	2035.1	2035.1	2035.1
2.5°	1910.7	1928.0	1925.5	1937.0	1941.2	1957.6	1974.1	1996.4	2021.1	2020.3	2036.7
5°	1802.7	1820.1	1824.2	1839.8	1859.6	1885.1	1918.9	1963.4	2009.6	2017.0	2049.9
7.5°	1675.0	1693.2	1703.9	1735.2	1771.4	1824.2	1879.4	1944.5	2021.1	2031.8	2095.2
10°	1547.3	1563.8	1577.8	1622.3	1680.0	1758.3	1848.1	1942.0	2045.0	2060.6	2150.4
12.5°	1468.2	1483.9	1499.5	1538.3	1610.0	1705.5	1827.5	1953.5	2084.5	2106.8	2225.4
15°	1440.2	1454.2	1466.6	1501.2	1567.9	1676.7	1823.3	1977.4	2134.8	2164.5	2316.1
17.5°	1444.3	1451.8	1460.0	1486.4	1551.5	1663.5	1830.8	2018.6	2194.1	2220.5	2406.7
20°	1468.2	1472.4	1473.2	1491.3	1549.0	1661.9	1845.6	2058.2	2250.1	2285.6	2496.5
22.5°	1498.7	1500.4	1498.7	1511.1	1564.6	1674.2	1865.4	2106.0	2312.8	2345.7	2587.1
25°	1641.3	1610.0	1570.4	1546.5	1591.0	1698.1	1895.0	2170.2	2381.1	2413.3	2675.3
27.5°	2083.7	1993.9	1852.2	1693.2	1645.4	1732.7	1936.2	2235.3	2450.4	2479.2	2770.0
30°	2802.2	2684.3	2443.8	2085.4	1820.1	1805.2	1989.8	2300.4	2523.7	2555.0	2871.4
32.5°	3522.3	3493.4	3215.8	2719.8	2213.1	1966.7	2078.8	2388.6	2620.9	2645.6	3008.2
35°	4250.6	4192.1	3964.7	3474.5	2818.6	2295.5	2227.1	2503.9	2748.6	2776.6	3207.5
37.5°	4808.4	4773.0	4632.1	4228.4	3537.1	2803.0	2480.8	2682.7	2934.0	2965.3	3463.0
40°	5301.1	5284.7	5236.9	4970.7	4340.4	3467.1	2875.5	2959.5	3191.1	3228.1	3776.1
42.5°	5688.4	5727.1	5754.3	5680.1	5168.5	4225.1	3406.1	3348.4	3549.5	3587.4	4174.8
45°	6084.7	6097.9	6207.5	6314.6	5990.8	5017.7	4004.3	3804.1	3995.2	4042.2	4652.7
47.5°	6339.3	6392.0	6584.8	6773.5	6682.0	5803.7	4646.9	4342.1	4511.8	4600.0	5188.3
50°	6358.2	6457.9	6723.2	7052.0	7185.5	6551.9	5345.6	4955.1	5135.5	5232.8	5760.1
52.5°	6042.7	6197.6	6608.7	7089.9	7457.4	7185.5	6068.2	5568.1	5799.6	5926.5	6353.3
55°	4632.9	4835.6	6177.8	6883.9	7468.1	7665.8	6771.8	6206.6	6539.5	6682.9	6994.3
57.5°	4036.4	4138.6	4857.0	6526.3	7269.5	7859.4	7407.9	6814.7	7344.5	7522.4	7599.9
60°	3358.3	3492.6	4073.5	5941.3	7000.1	7878.4	7969.8	7599.1	8217.0	8417.2	8155.2
62.5°	2282.3	2428.1	3005.7	4936.1	6631.8	7869.3	8430.4	8406.5	9186.8	9401.8	8625.7
65°	1413.9	1505.3	1886.0	4030.6	6116.8	7879.2	8912.4	9387.0	10210.1	10428.4	8989.9
67.5°	1117.2	1159.3	1357.8	3094.7	5229.5	7656.7	9393.6	10309.0	11173.3	11346.3	9101.1
70°	750.6	776.1	987.9	2074.6	3890.6	6630.1	9384.5	10772.0	11669.3	11755.8	8695.7
72.5°	395.5	415.3	577.6	960.7	2349.8	4712.9	7910.5	10218.3	11175.7	11045.5	7432.6
75°	197.7	230.7	388.9	487.8	1003.5	2628.3	4912.2	8056.3	8796.2	8292.0	4768.9
77.5°	150.0	181.3	321.3	321.3	349.3	884.9	2080.4	4394.0	4052.9	3374.8	1399.8
80°	95.6	123.6	281.0	243.1	145.8	224.9	542.1	1230.9	861.0	655.0	254.6
82.5°	56.0	80.7	234.0	160.7	81.6	83.2	153.3	262.0	223.3	173.8	78.3
85°	22.2	52.7	160.7	63.4	32.1	20.6	46.1	56.0	46.1	34.6	19.8
87.5°	0.0	12.4	28.0	0.0	2.5	1.6	3.3	4.1	4.1	3.3	6.6
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°	2035.1	2035.1	2035.1	2035.1	2035.1	2035.1	2035.1	2035.1	2035.1	2035.1	2035.1
2.5°	2044.2	2045.8	2050.8	2051.6	2040.0	2025.2	2019.4	2017.0	2007.1	2006.3	2007.9
5°	2068.9	2076.3	2068.9	2047.5	1996.4	1924.7	1870.3	1825.8	1785.4	1773.1	1765.7
7.5°	2118.3	2125.7	2103.5	2019.4	1890.9	1748.4	1619.8	1529.2	1447.6	1417.2	1404.8
10°	2189.2	2199.1	2129.0	1959.3	1731.9	1502.8	1285.3	1132.1	1012.6	964.0	943.4
12.5°	2278.2	2282.3	2143.0	1867.8	1525.1	1198.0	889.8	725.9	619.6	580.0	567.7
15°	2376.2	2370.4	2144.7	1743.4	1243.3	847.0	580.9	477.1	434.2	421.0	421.0
17.5°	2479.2	2455.3	2111.7	1563.8	934.3	579.2	430.9	406.2	398.8	395.5	394.7
20°	2580.5	2527.0	2051.6	1329.0	670.7	432.6	391.4	383.9	379.8	378.2	376.5
22.5°	2672.8	2581.4	1948.6	1056.3	486.9	382.3	369.9	363.4	355.9	352.6	351.8
25°	2762.6	2612.7	1803.6	801.7	389.7	357.6	347.7	335.3	325.5	321.3	319.7
27.5°	2850.0	2632.4	1622.3	593.2	347.7	334.5	316.4	299.1	291.7	290.0	288.4
30°	2943.1	2639.0	1416.3	442.4	322.2	305.7	279.3	259.5	255.4	256.2	256.2
32.5°	3056.8	2648.9	1208.7	362.5	300.7	271.1	239.8	219.2	215.9	219.2	218.3
35°	3192.7	2668.7	1008.5	333.7	281.8	235.6	201.9	184.6	181.3	183.7	182.9
37.5°	3377.3	2700.8	821.5	327.9	266.1	206.0	169.7	155.7	155.7	156.5	155.7
40°	3622.8	2786.5	654.2	323.8	257.9	183.7	143.4	137.6	140.1	141.7	141.7
42.5°	3921.9	2968.6	541.3	318.9	248.8	173.8	130.2	127.7	131.8	133.5	133.5
45°	4257.2	3199.3	501.8	310.6	240.6	180.4	124.4	121.1	126.1	126.9	127.7
47.5°	4604.1	3425.1	496.8	301.6	232.3	190.3	122.8	115.3	121.1	121.9	122.8
50°	4955.1	3572.5	501.8	287.6	219.2	190.3	123.6	109.6	114.5	117.0	117.8
52.5°	5308.6	3640.1	498.5	257.1	196.1	178.8	123.6	104.6	109.6	111.2	111.2
55°	5651.3	3626.9	448.2	211.7	166.4	158.2	120.3	100.5	103.8	104.6	104.6
57.5°	5922.4	3443.2	355.1	164.8	135.1	131.8	109.6	95.6	98.0	97.2	97.2
60°	6064.1	3039.5	253.8	126.9	106.3	103.8	96.4	89.0	90.6	86.5	85.7
62.5°	6065.7	2505.6	169.7	100.5	84.9	82.4	82.4	79.9	78.3	70.0	67.6
65°	5936.4	1913.2	112.9	79.9	68.4	64.3	69.2	68.4	62.6	51.1	49.4
67.5°	5643.1	1254.0	85.7	62.6	52.7	50.3	55.2	57.7	53.6	42.8	42.0
70°	5040.0	730.0	70.9	48.6	39.5	37.1	44.5	49.4	44.5	34.6	33.0
72.5°	4186.4	393.8	57.7	36.3	27.2	24.7	35.4	40.4	35.4	25.5	24.7
75°	2716.5	210.9	44.5	23.9	14.0	15.7	26.4	29.7	24.7	16.5	14.8
77.5°	912.1	93.1	28.0	11.5	6.6	6.6	15.7	18.1	11.5	5.8	4.9
80°	203.5	38.7	11.5	4.9	2.5	2.5	3.3	3.3	1.6	0.0	0.0
82.5°	66.7	15.7	4.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.5	5.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.9	0.8	0.0	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)