

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: P946650

Luminaire Tested: **GALN-SB2B-727-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-727-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10639 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 73.9
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



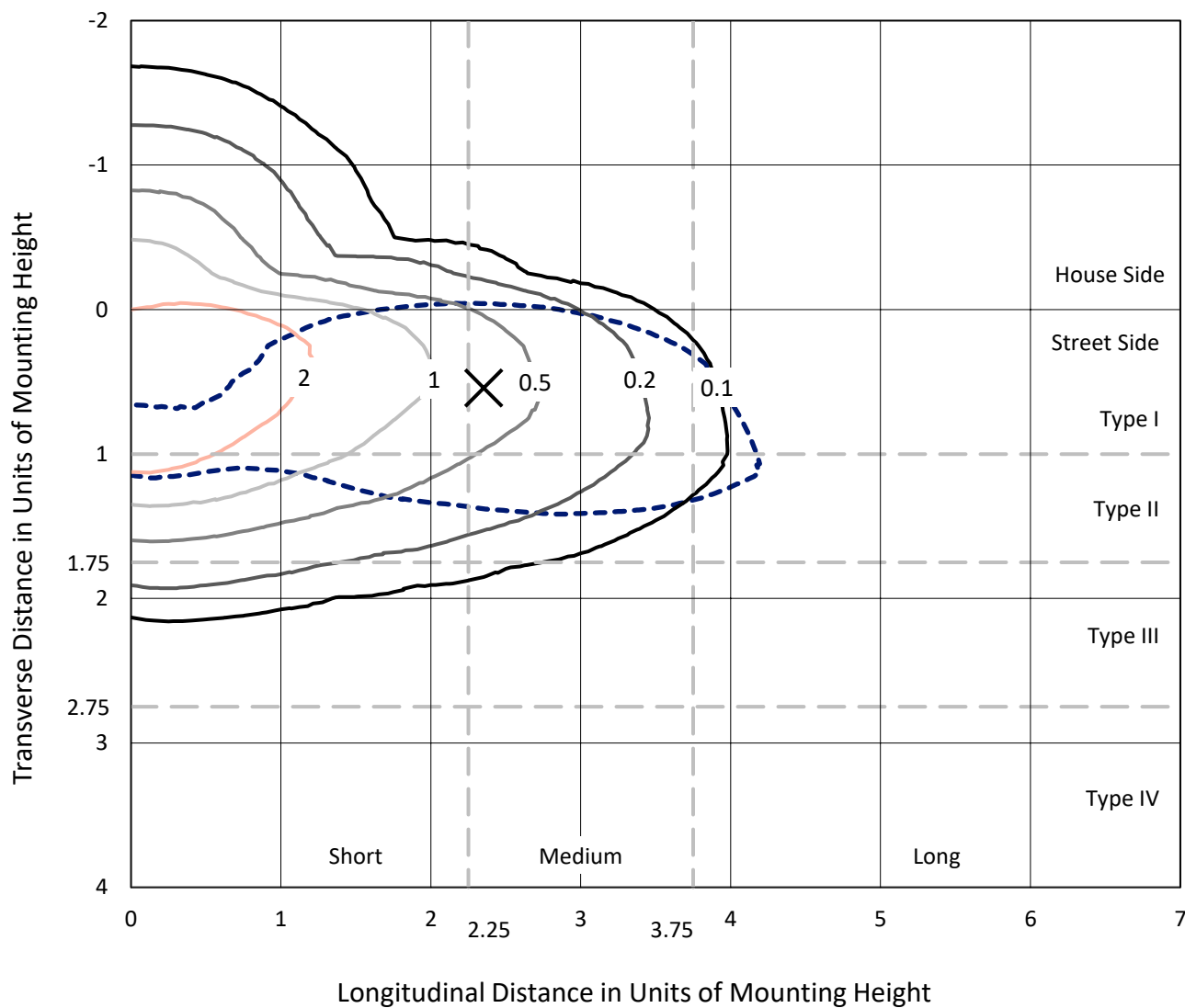
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

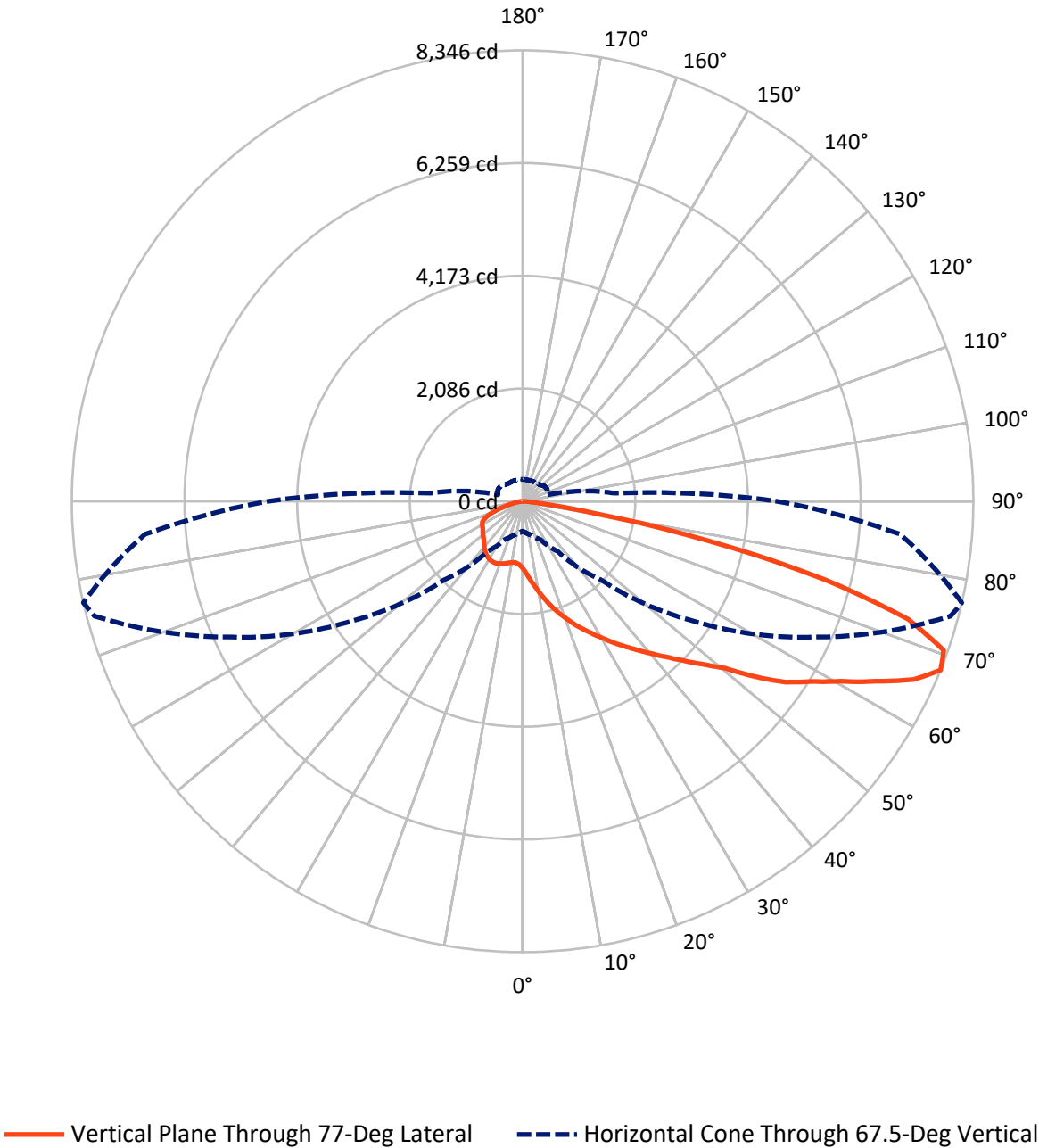
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2012.5	0.0	2012.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	8626.5	0.0	8626.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	10639.0	0.0	10639.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.8	1.3
10°-20°	480.7	4.5
20°-30°	907.6	8.5
30°-40°	1462.1	13.7
40°-50°	1999.9	18.8
50°-60°	2255.9	21.2
60°-70°	2105.6	19.8
70°-80°	1154.2	10.8
80°-90°	139.2	1.3
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°	10639.0	100.0
0°-180°	10639.0	100.0

Coefficient of Utilization



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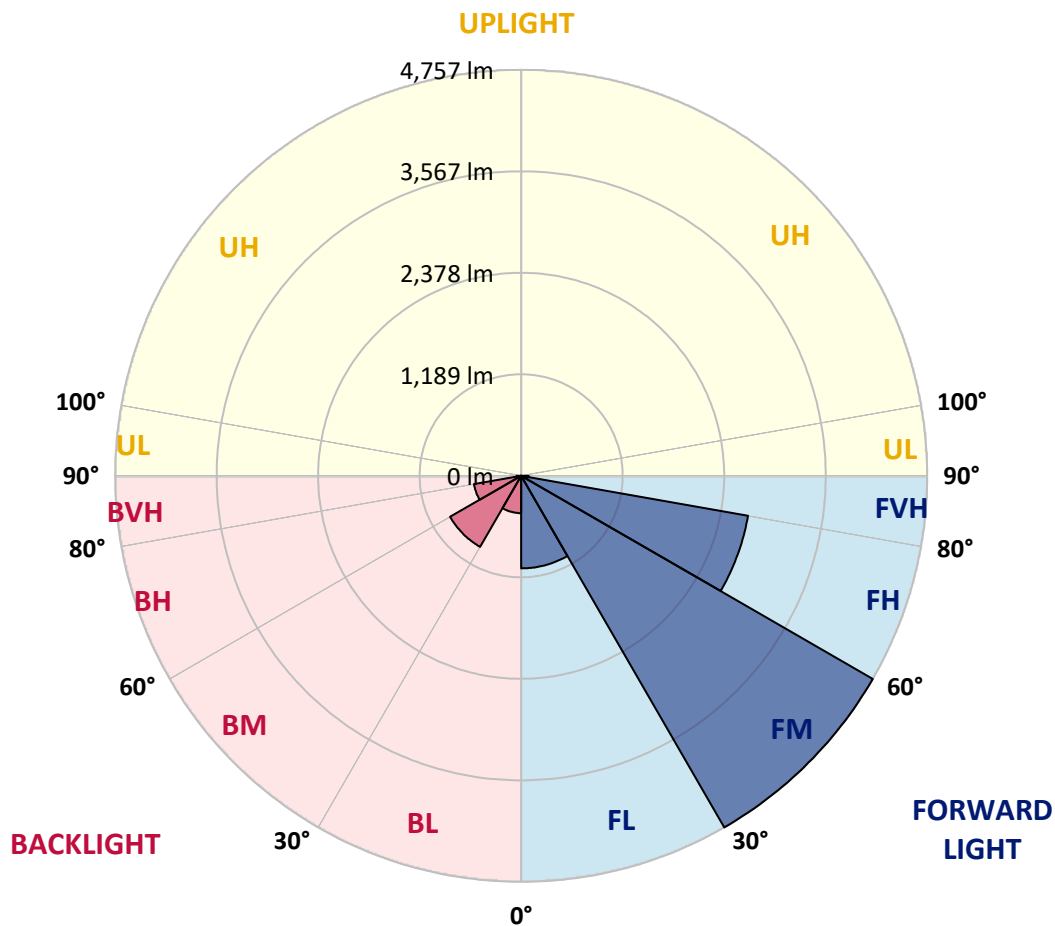
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1084.5	10.2			
FM	(30°-60°)	4756.6	44.7			
FH	(60°-80°)	2698.4	25.4			G2/5000
FVH	(80°-90°)	87.1	0.8			G1/100
BL	(0°-30°)	437.6	4.1	B1/500		
BM	(30°-60°)	961.3	9.0	B1/1000		
BH	(60°-80°)	561.4	5.3	B2/1000		G2/1000
BVH	(80°-90°)	52.2	0.5			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3
2.5°	1563.0	1573.9	1560.2	1560.2	1514.1	1489.9	1443.8	1408.6	1345.5	1334.5	1292.8
5°	1847.4	1861.2	1841.9	1833.7	1779.3	1729.4	1651.9	1575.6	1463.0	1451.5	1353.2
7.5°	2067.7	2085.2	2068.2	2059.4	2011.1	1955.1	1864.5	1757.9	1599.2	1576.7	1434.5
10°	2247.2	2250.0	2244.5	2247.8	2209.9	2163.8	2071.0	1946.8	1748.6	1717.8	1532.8
12.5°	2348.8	2361.5	2372.5	2392.2	2385.6	2357.1	2273.6	2125.3	1906.8	1867.2	1639.9
15°	2396.6	2418.6	2443.3	2488.9	2525.7	2532.8	2469.1	2317.0	2067.7	2019.9	1748.0
17.5°	2413.6	2434.5	2473.5	2539.4	2618.5	2671.8	2643.2	2503.2	2226.9	2172.0	1861.7
20°	2499.9	2505.9	2529.5	2592.1	2677.8	2766.2	2787.6	2682.2	2384.5	2322.5	1979.2
22.5°	2684.4	2672.3	2678.9	2707.5	2769.0	2854.6	2903.5	2840.4	2546.5	2475.2	2097.9
25°	2989.2	2954.0	2918.9	2885.9	2917.2	2965.6	3021.0	2998.5	2716.2	2625.6	2217.6
27.5°	3374.2	3331.3	3253.9	3145.7	3107.8	3124.8	3149.5	3145.2	2873.3	2781.6	2341.2
30°	3753.1	3703.1	3610.9	3454.3	3354.4	3309.4	3290.7	3278.1	3044.1	2946.3	2465.8
32.5°	4055.7	4016.2	3925.5	3750.3	3605.4	3528.5	3466.4	3421.4	3222.6	3124.8	2597.6
35°	4320.4	4283.6	4179.8	3988.7	3831.1	3749.2	3668.0	3571.9	3408.2	3309.4	2739.3
37.5°	4562.0	4525.2	4383.0	4184.2	4025.5	3968.9	3896.4	3733.3	3594.4	3501.0	2889.2
40°	4714.7	4706.5	4573.6	4348.4	4183.7	4155.6	4131.5	3920.6	3800.9	3714.1	3054.0
42.5°	4753.7	4771.8	4666.4	4481.3	4324.2	4301.7	4358.3	4132.6	4032.6	3949.7	3240.7
45°	4659.8	4712.0	4642.8	4517.0	4424.2	4412.1	4559.3	4364.3	4289.1	4213.3	3465.9
47.5°	4422.0	4510.4	4481.9	4464.3	4451.1	4503.3	4736.1	4610.4	4579.6	4513.7	3722.9
50°	3942.0	4109.5	4159.5	4270.4	4397.8	4574.1	4897.0	4878.9	4919.0	4852.6	4035.9
52.5°	3112.2	3342.9	3632.8	3910.7	4234.2	4550.5	5073.9	5264.4	5433.6	5397.3	4533.5
55°	2569.1	2672.9	2895.8	3405.5	3916.7	4451.1	5153.5	5575.8	5944.3	5911.9	4910.8
57.5°	2151.7	2244.5	2381.8	2807.4	3436.8	4225.4	5202.9	5765.8	6294.1	6290.9	5283.1
60°	1704.1	1802.4	1943.0	2244.5	2876.1	3835.5	5191.9	5982.2	6740.6	6768.1	5737.3
62.5°	1198.9	1307.0	1463.0	1744.2	2303.3	3330.2	4967.9	6138.7	7266.2	7340.9	6283.7
65°	788.1	859.5	977.0	1219.7	1716.2	2680.5	4540.1	6159.0	7828.6	7954.9	6796.6
67.5°	552.5	579.9	649.1	780.9	1131.3	2055.6	3858.5	5948.7	8203.6	8345.9	7019.1
70°	431.1	444.8	480.0	532.7	710.6	1382.3	2956.8	5401.7	8123.5	8271.7	6786.8
72.5°	372.3	385.5	398.7	405.3	476.7	853.4	2002.9	4516.5	7368.3	7468.8	5900.9
75°	337.7	341.0	352.0	349.8	363.6	553.6	1156.0	3290.7	5813.6	5779.0	4356.1
77.5°	283.9	288.3	306.4	303.7	322.9	378.4	600.3	2123.7	3769.0	3534.0	2424.6
80°	240.5	242.7	262.5	259.2	280.6	274.0	306.4	1082.4	1598.7	1354.3	699.1
82.5°	83.5	103.2	200.5	206.5	214.2	165.9	176.8	441.5	488.2	374.0	146.6
85°	40.6	43.4	102.1	145.0	144.4	83.5	86.2	157.6	153.8	120.8	48.9
87.5°	6.6	8.2	12.1	56.6	45.0	22.0	29.7	30.8	31.9	27.5	11.0
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°	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3
2.5°	1262.0	1234.6	1176.9	1123.6	1081.9	1041.8	1019.3	1000.1	989.1	986.9	986.9
5°	1296.1	1239.5	1134.6	1046.2	988.5	945.7	923.2	908.9	901.8	897.4	896.8
7.5°	1344.9	1262.0	1112.6	1012.1	951.7	921.0	909.4	907.2	906.7	907.2	908.9
10°	1412.5	1298.8	1110.4	1003.9	953.4	936.4	935.8	936.4	938.5	939.1	939.6
12.5°	1485.5	1336.7	1119.2	1011.0	974.2	964.9	963.3	962.7	964.4	965.5	966.0
15°	1565.2	1386.7	1134.1	1026.4	997.3	987.4	985.8	982.5	981.9	981.4	980.8
17.5°	1647.0	1436.1	1150.5	1042.9	1012.1	998.4	992.4	984.7	978.6	977.0	978.6
20°	1729.9	1485.0	1162.1	1051.1	1013.2	994.0	981.9	968.8	958.3	952.3	954.5
22.5°	1818.3	1536.1	1169.2	1048.9	1003.4	977.0	955.0	939.6	923.7	913.3	913.8
25°	1904.6	1580.5	1168.7	1037.4	984.1	950.6	922.6	902.9	880.9	869.9	869.9
27.5°	1987.5	1620.6	1154.9	1017.1	956.7	919.3	885.8	862.2	840.8	830.4	829.8
30°	2073.2	1654.1	1133.5	987.4	924.3	883.1	846.3	826.0	806.7	796.9	796.3
32.5°	2158.3	1684.9	1103.3	950.6	886.9	847.4	811.1	792.5	780.9	780.9	781.5
35°	2248.3	1706.3	1063.2	907.8	847.4	809.5	780.9	769.9	768.9	762.3	760.6
37.5°	2343.3	1720.0	1014.3	863.9	808.4	772.7	763.9	750.7	739.7	725.5	723.3
40°	2443.3	1733.8	955.6	818.3	767.2	747.4	743.6	726.0	694.7	659.6	654.6
42.5°	2564.7	1743.1	894.6	772.7	723.8	717.2	722.7	692.5	642.5	616.2	616.7
45°	2705.3	1758.5	838.6	727.7	679.3	679.3	702.4	662.9	621.7	605.2	607.9
47.5°	2887.6	1794.2	786.4	678.2	638.1	649.1	657.4	627.2	604.1	583.8	583.2
50°	3151.2	1879.8	732.6	628.3	606.8	628.8	617.3	599.7	572.8	556.3	554.7
52.5°	3478.5	1930.4	684.8	583.2	579.9	601.9	585.4	569.0	548.6	526.7	522.3
55°	3701.5	1939.7	644.7	550.3	561.8	559.6	553.6	538.7	527.8	498.7	499.2
57.5°	3950.8	1958.4	611.8	530.5	550.3	526.1	523.9	511.3	497.0	477.2	470.6
60°	4249.0	1987.5	583.2	522.8	540.4	504.1	493.2	488.2	473.9	464.1	466.8
62.5°	4574.1	2013.8	554.1	523.9	528.9	482.7	466.3	464.6	455.8	452.5	452.5
65°	4796.0	1941.9	517.9	522.8	510.7	460.8	439.9	439.3	432.2	431.1	430.6
67.5°	4718.6	1714.0	469.0	507.4	492.1	438.8	415.7	413.5	404.2	404.7	404.7
70°	4330.8	1388.9	401.5	469.5	469.0	419.0	390.5	383.3	370.7	372.9	375.1
72.5°	3603.7	1029.2	310.8	406.4	432.2	400.9	361.4	349.8	333.9	336.1	335.5
75°	2602.6	699.7	226.3	309.2	376.2	379.5	332.8	313.0	293.8	297.1	298.2
77.5°	1331.8	396.5	166.4	213.1	295.5	344.9	307.0	280.6	276.2	307.0	302.6
80°	434.4	198.8	115.3	149.4	193.9	282.3	269.1	238.9	237.8	244.9	210.3
82.5°	129.6	84.0	74.1	98.3	107.1	216.4	232.3	180.7	155.4	163.7	169.1
85°	44.5	40.6	42.3	48.9	51.1	126.9	162.6	119.7	113.1	124.7	123.0
87.5°	10.4	14.3	12.1	11.0	11.0	30.8	63.2	50.0	69.2	46.1	44.5
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)