

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: P951616

Luminaire Tested: **GALN-SB5D-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-722-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43187 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 364.9
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



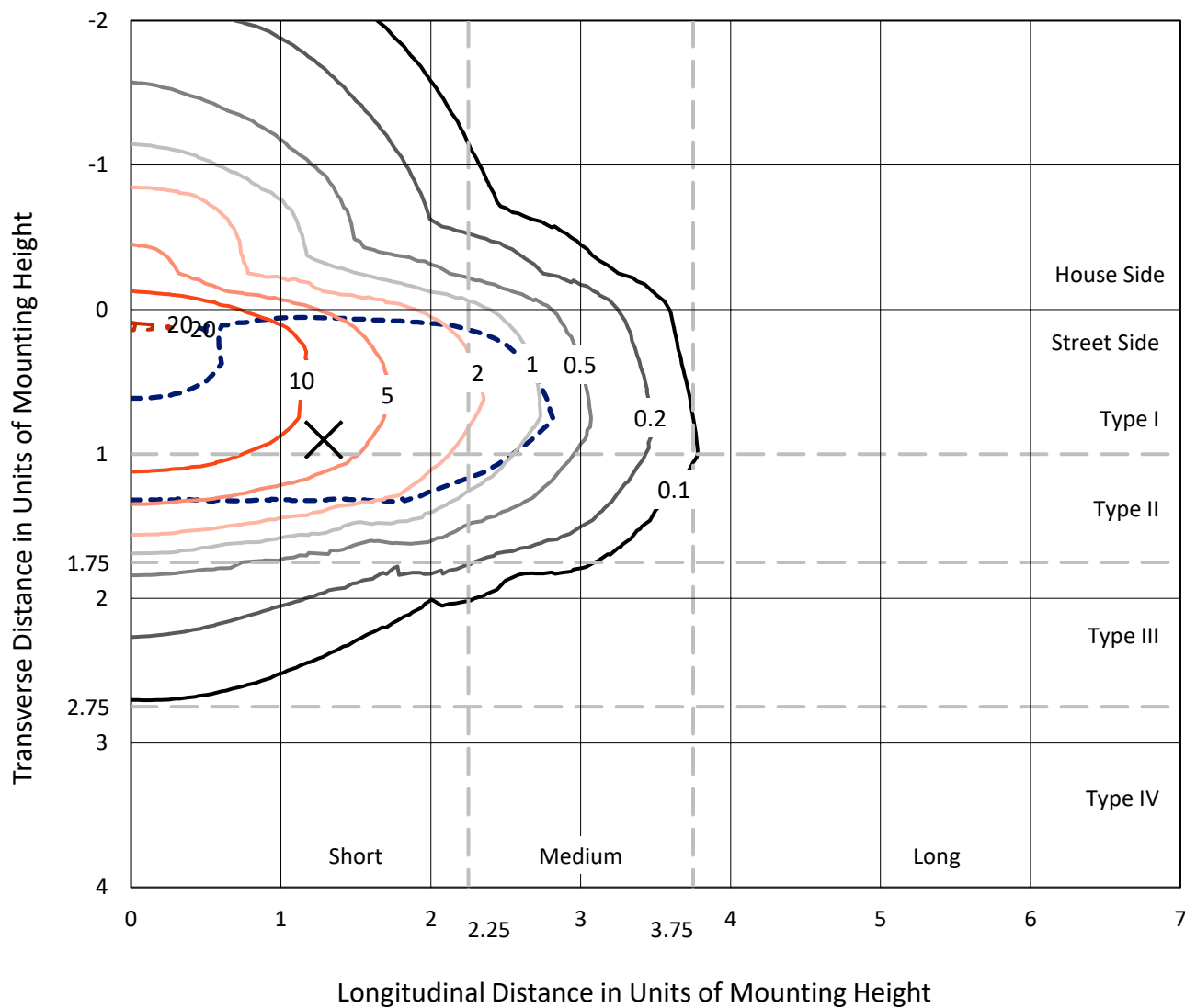
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Iso-Footcandle Lines of Horizontal Illumination

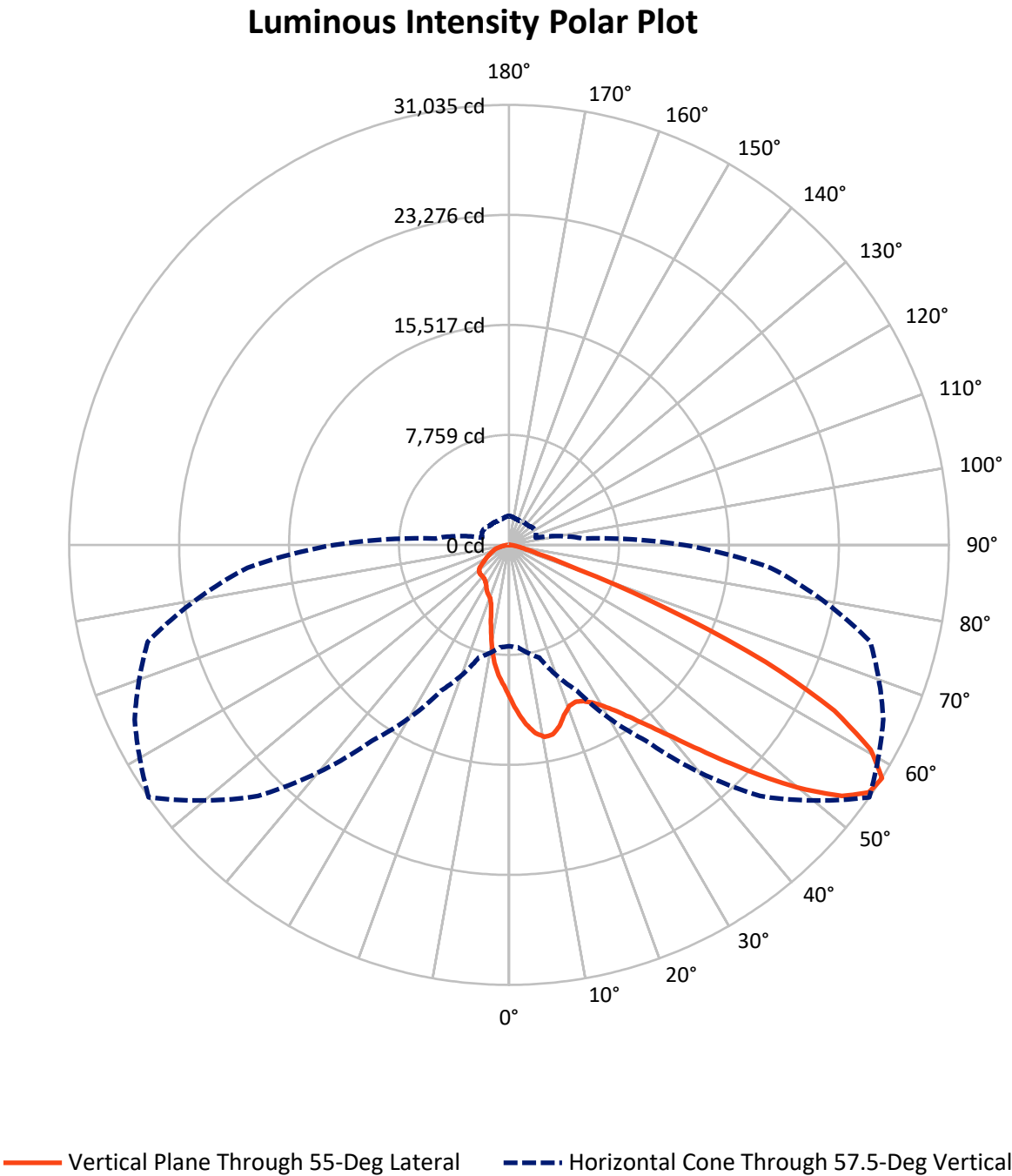
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.9 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7814.5	0.0	7814.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	35372.5	0.0	35372.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	43187.0	0.0	43187.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1004.1	2.3
10°-20°	2534.5	5.9
20°-30°	4044.4	9.4
30°-40°	6403.2	14.8
40°-50°	9800.8	22.7
50°-60°	10497.6	24.3
60°-70°	6604.1	15.3
70°-80°	1953.0	4.5
80°-90°	345.3	0.8
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°	43187.0	100.0
0°-180°	43187.0	100.0

Coefficient of Utilization



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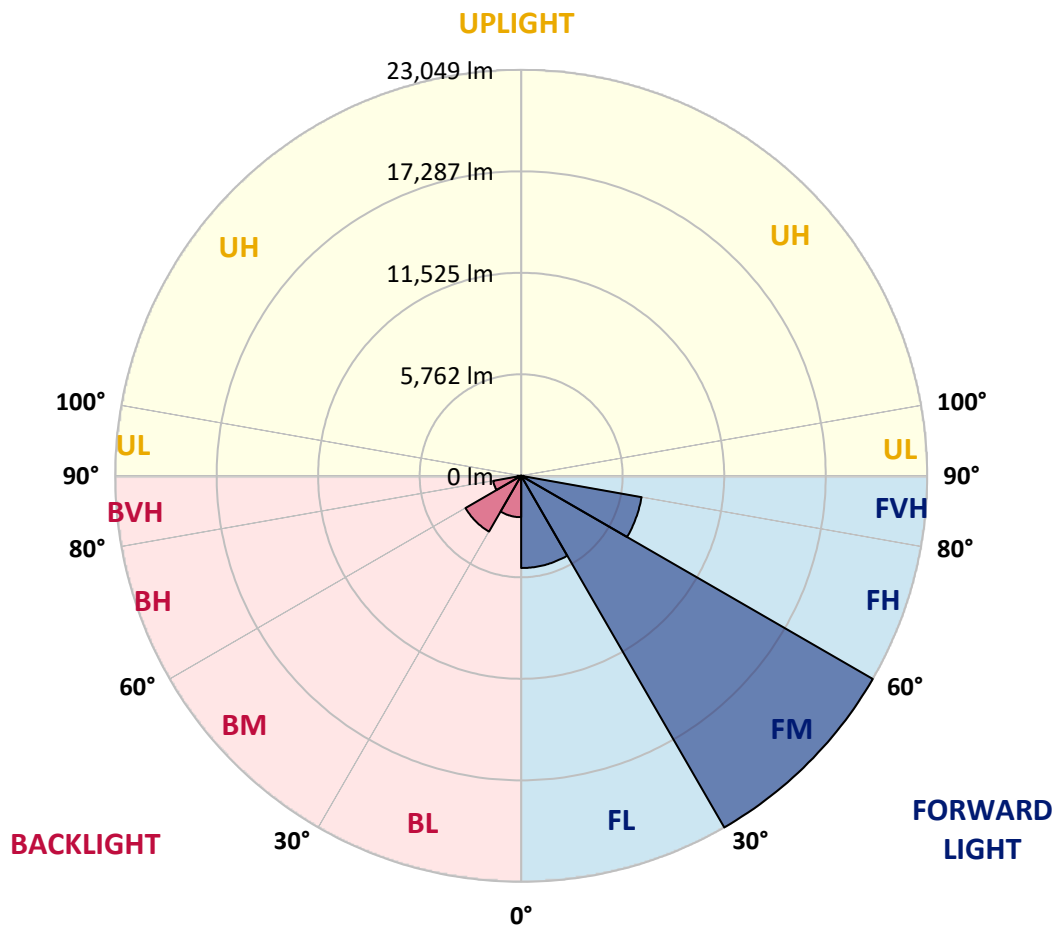
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5234.3	12.1			
FM	(30°-60°)	23049.2	53.4			
FH	(60°-80°)	6943.2	16.1			G3/7500
FVH	(80°-90°)	145.9	0.3			G2/225
BL	(0°-30°)	2348.8	5.4	B3/2500		
BM	(30°-60°)	3652.4	8.5	B3/5000		
BH	(60°-80°)	1613.9	3.7	B3/2500		G3/2500
BVH	(80°-90°)	199.4	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10821.3	10821.3	10821.3	10821.3	10821.3	10821.3	10821.3	10821.3	10821.3	10821.3	10821.3
2.5°	12415.3	12406.4	12455.5	12288.1	12174.2	12020.1	11817.0	11558.0	11278.9	10984.2	10857.0
5°	13533.8	13455.7	13507.0	13382.0	13257.0	13024.8	12723.4	12301.5	11785.7	11198.6	10886.0
7.5°	13357.5	13303.9	13435.6	13547.2	13641.0	13612.0	13390.9	12948.9	12283.6	11430.8	10977.5
10°	11935.3	11875.0	12060.3	12446.6	13013.6	13507.0	13774.9	13500.3	12792.6	11685.3	11066.8
12.5°	10680.6	10651.6	10774.4	11086.9	11716.5	12663.1	13725.8	13982.6	13321.7	11986.7	11187.4
15°	10144.8	10109.1	10187.2	10345.7	10747.6	11629.5	13279.3	14313.0	13841.9	12334.9	11379.4
17.5°	10026.5	9986.3	10019.8	10102.4	10361.4	11033.4	12605.1	14476.0	14384.4	12723.4	11540.1
20°	10245.3	10211.8	10216.2	10211.8	10392.6	10926.2	12136.2	14413.5	14857.7	13080.6	11696.4
22.5°	10774.4	10718.6	10720.8	10602.5	10700.7	11113.7	12013.5	14246.0	15279.7	13393.2	11814.8
25°	11636.1	11535.7	11555.8	11254.4	11227.6	11533.4	12205.5	14116.5	15699.4	13643.2	11837.1
27.5°	12814.9	12701.1	12640.8	12192.1	11977.7	12129.5	12596.2	14161.2	16096.8	13859.8	11781.3
30°	14288.4	14150.0	14027.2	13390.9	13002.5	12946.7	13203.4	14455.9	16565.7	14087.5	11685.3
32.5°	16094.6	15933.8	15710.6	14866.7	14319.7	14027.2	13989.3	14980.5	17114.9	14377.7	11636.1
35°	18244.6	18034.7	17717.7	16625.9	15933.8	15335.5	15025.2	15737.4	17867.2	14815.3	11692.0
37.5°	20459.3	20222.6	19932.4	18633.0	17782.4	16900.5	16288.8	16764.4	18869.7	15409.2	11839.3
40°	22502.1	22236.4	21966.2	20809.8	19896.7	18833.9	17836.0	18063.7	20095.4	16119.1	12089.4
42.5°	23707.6	23511.2	23408.5	22783.4	22077.9	20999.5	19760.5	19604.2	21472.8	16936.3	12375.1
45°	23654.1	23573.7	23890.7	24149.7	23982.3	23383.9	22015.4	21307.6	22854.8	17644.0	12638.6
47.5°	22390.4	22444.0	23151.7	24607.4	25248.1	25560.7	24582.8	22979.8	24055.9	18173.1	12756.9
50°	18952.3	18996.9	20635.6	23774.6	25574.1	27335.6	27130.2	24611.8	24986.9	18496.8	12730.1
52.5°	16230.8	16259.8	16963.1	21305.4	24498.0	28228.6	29425.3	26150.1	25667.8	18586.1	12580.5
55°	12225.5	12326.0	13114.1	16715.2	21698.3	27520.9	30822.8	27735.2	26098.7	18595.1	12424.2
57.5°	7142.0	7251.4	8224.8	11345.9	16864.8	25053.9	31034.9	29141.7	26391.2	18523.6	12330.5
60°	3498.4	3545.3	3969.5	5963.2	10399.3	20300.7	29329.3	29822.7	26554.2	18485.7	12326.0
62.5°	2357.6	2350.9	2368.8	2942.5	5123.7	13042.7	25775.0	28630.5	26467.1	18340.6	12281.4
65°	2027.2	2002.6	1935.6	2065.1	2654.5	5965.4	19914.5	25071.7	25804.0	17976.6	11975.5
67.5°	1752.6	1754.8	1757.0	1716.8	1895.5	2752.8	12169.7	19749.3	23424.1	16253.1	10796.7
70°	1451.2	1471.3	1480.2	1480.2	1544.9	1806.1	5195.2	13536.1	18476.7	12743.5	8695.9
72.5°	1321.7	1279.3	1283.7	1261.4	1261.4	1375.3	2091.9	7673.3	11640.6	7168.8	5306.8
75°	1078.3	1105.1	1109.6	1094.0	1042.6	1049.3	1241.3	3219.4	4980.9	2973.8	2623.3
77.5°	931.0	931.0	939.9	928.7	888.6	785.9	828.3	1248.0	1694.5	1219.0	1310.5
80°	747.9	745.7	783.6	806.0	743.4	580.5	529.1	689.9	752.4	535.8	680.9
82.5°	363.9	386.2	538.0	614.0	564.8	419.7	323.7	428.7	401.9	236.7	305.9
85°	212.1	200.9	241.1	341.6	323.7	232.2	156.3	223.3	209.9	120.6	122.8
87.5°	67.0	62.5	49.1	116.1	93.8	64.7	42.4	64.7	58.0	26.8	26.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10821.3	10821.3	10821.3	10821.3	10821.3	10821.3	10821.3	10821.3	10821.3	10821.3
2.5°	10698.5	10435.0	10173.8	9934.9	9789.8	9696.0	9602.3	9497.3	9457.2	9396.9
5°	10591.3	10082.3	9629.1	9238.4	8883.4	8604.3	8323.0	8095.3	7992.6	8061.8
7.5°	10528.8	9792.0	9093.3	8376.6	7686.7	7135.3	6655.3	6318.2	6166.4	6204.3
10°	10473.0	9463.9	8398.9	7267.0	6275.8	5592.6	5101.4	4844.7	4748.7	4768.8
12.5°	10421.6	9095.5	7561.7	6072.6	5018.8	4567.8	4427.2	4429.4	4447.3	4460.7
15°	10412.7	8651.2	6626.3	5027.7	4340.1	4311.1	4462.9	4558.9	4610.3	4625.9
17.5°	10399.3	8119.9	5673.0	4315.6	4174.9	4371.4	4512.0	4574.5	4614.7	4617.0
20°	10345.7	7445.6	4793.3	3976.2	4139.2	4308.9	4395.9	4445.0	4478.5	4489.7
22.5°	10180.5	6695.5	4107.9	3824.4	3996.3	4132.5	4235.2	4291.0	4311.1	4324.5
25°	9883.6	5856.0	3634.6	3679.3	3797.6	3969.5	4052.1	4063.3	4056.6	4076.7
27.5°	9495.1	4956.3	3339.9	3482.8	3634.6	3782.0	3826.6	3819.9	3806.5	3828.9
30°	9026.3	4148.1	3152.4	3261.8	3469.4	3603.4	3643.6	3627.9	3601.1	3625.7
32.5°	8530.6	3487.3	2998.3	3107.7	3333.2	3464.9	3505.1	3489.5	3469.4	3489.5
35°	8068.5	3025.1	2855.5	3005.0	3226.1	3355.6	3406.9	3409.1	3409.1	3433.7
37.5°	7644.3	2755.0	2737.1	2940.3	3152.4	3268.5	3342.2	3346.6	3250.6	3257.3
40°	7251.4	2641.1	2683.5	2897.9	3080.9	3192.6	3197.0	2947.0	2770.6	2766.2
42.5°	6929.9	2618.8	2699.2	2893.4	3029.6	3034.1	2719.3	2525.0	2475.9	2478.2
45°	6628.5	2612.1	2734.9	2893.4	2953.7	2621.0	2408.9	2357.6	2362.1	2379.9
47.5°	6291.4	2585.3	2741.6	2853.2	2734.9	2330.8	2268.3	2246.0	2237.0	2241.5
50°	5923.0	2489.3	2656.8	2772.9	2359.8	2205.8	2127.6	2120.9	2132.1	2138.8
52.5°	5534.5	2333.0	2511.6	2627.7	2187.9	2096.4	2009.3	2024.9	2074.1	2089.7
55°	5280.0	2150.0	2319.6	2337.5	2067.4	1993.7	1920.0	1955.7	2047.3	2076.3
57.5°	5213.0	1955.7	2100.8	2080.8	1913.3	1904.4	1859.7	1891.0	2007.1	2049.5
60°	5193.0	1781.6	1886.5	1870.9	1763.7	1806.1	1795.0	1810.6	1850.8	1864.2
62.5°	5036.7	1643.2	1694.5	1672.2	1629.8	1703.4	1730.2	1696.8	1728.0	1743.6
65°	4639.3	1531.5	1507.0	1491.4	1509.2	1576.2	1629.8	1562.8	1591.8	1636.5
67.5°	3982.9	1379.7	1312.8	1330.6	1386.4	1422.1	1491.4	1415.4	1440.0	1515.9
70°	3221.6	1187.7	1127.4	1178.8	1232.4	1306.1	1317.2	1265.9	1323.9	1408.8
72.5°	2279.5	993.5	951.1	1056.0	1073.9	1169.9	1145.3	1120.7	1201.1	1230.1
75°	1580.7	801.5	776.9	857.3	922.1	1004.7	986.8	1015.8	1185.5	1198.9
77.5°	1000.2	622.9	607.3	658.6	747.9	839.4	868.5	1198.9	2024.9	2105.3
80°	580.5	464.4	446.5	486.7	564.8	649.7	837.2	1471.3	1335.1	1319.4
82.5°	323.7	319.3	296.9	308.1	377.3	468.8	1183.3	1035.9	841.7	868.5
85°	151.8	187.5	160.7	154.0	212.1	549.2	790.3	591.6	392.9	384.0
87.5°	40.2	35.7	35.7	40.2	89.3	473.3	314.8	252.3	149.6	145.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)