

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: P950229

Luminaire Tested: **GALN-SB4D-730-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950229
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34773 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 293.6
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

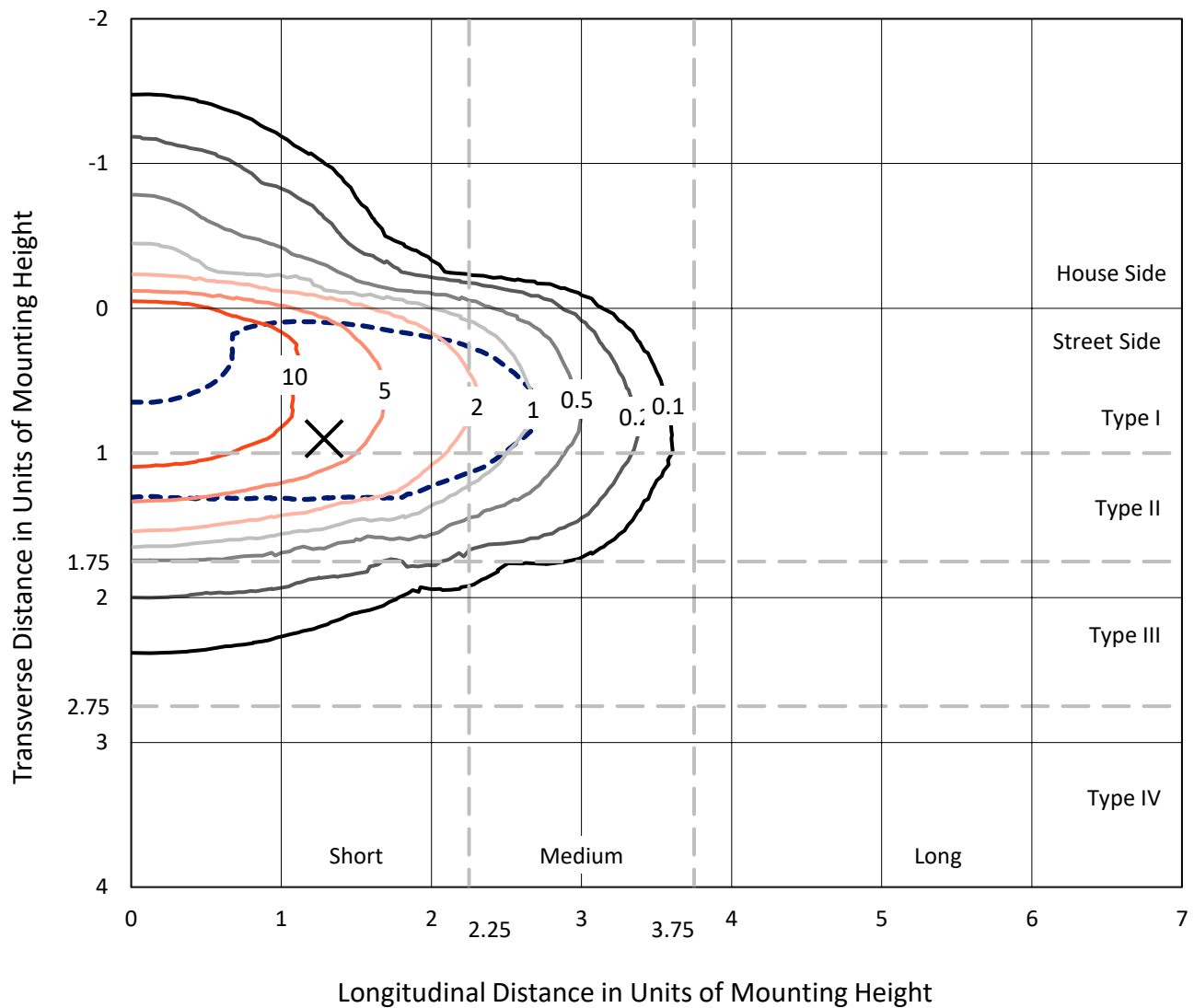


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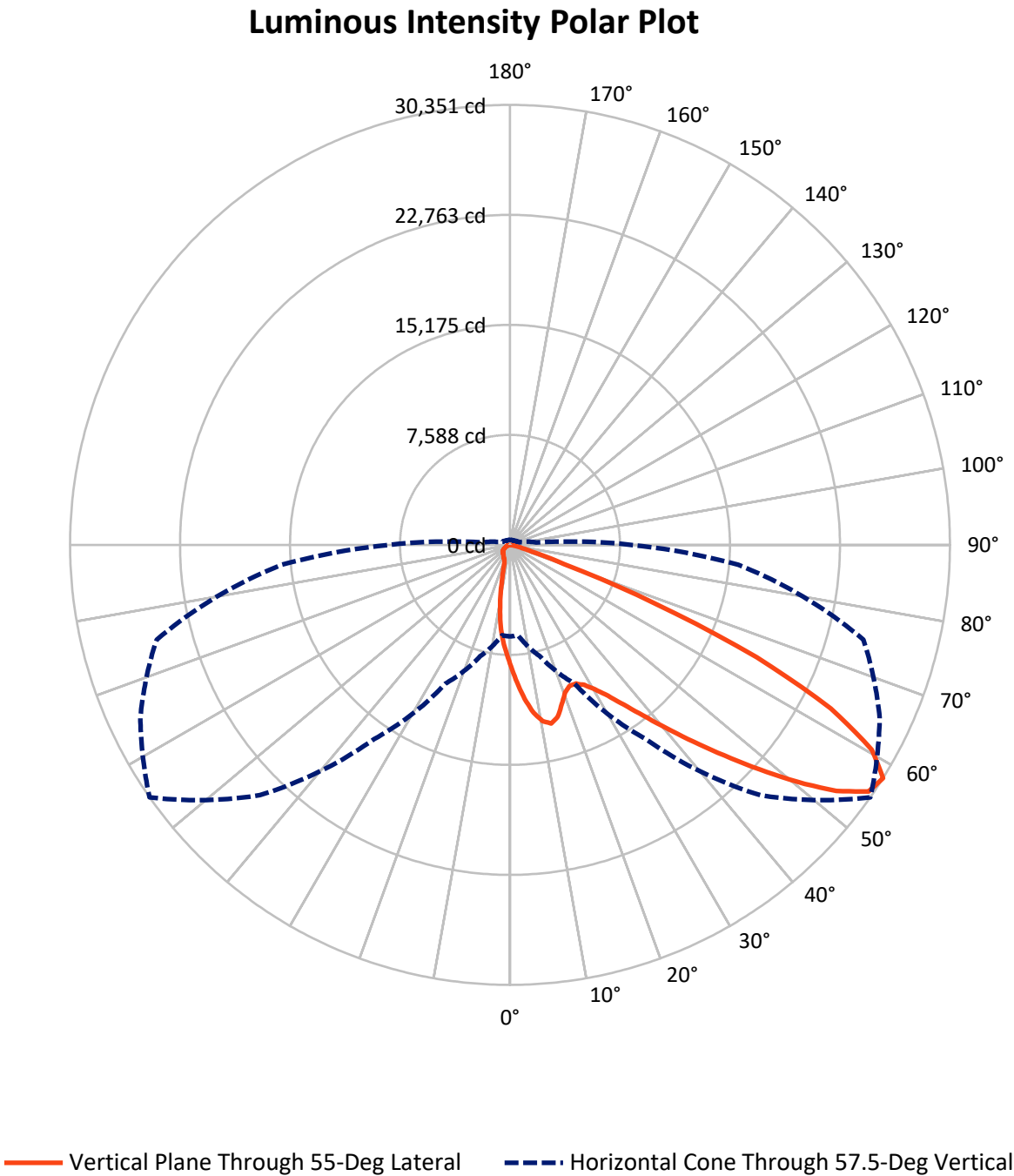
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 fc
 Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2715.6	0.0	2715.6
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	32057.4	0.0	32057.4
	% Fixture	92.2	0.0	92.2
Total	Lumens	34773.0	0.0	34773.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	779.7	2.2
10°-20°	1883.3	5.4
20°-30°	3013.2	8.7
30°-40°	5100.0	14.7
40°-50°	8373.2	24.1
50°-60°	9202.7	26.5
60°-70°	5278.7	15.2
70°-80°	1078.6	3.1
80°-90°	63.6	0.2
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°	34773.0	100.0
0°-180°	34773.0	100.0

Coefficient of Utilization



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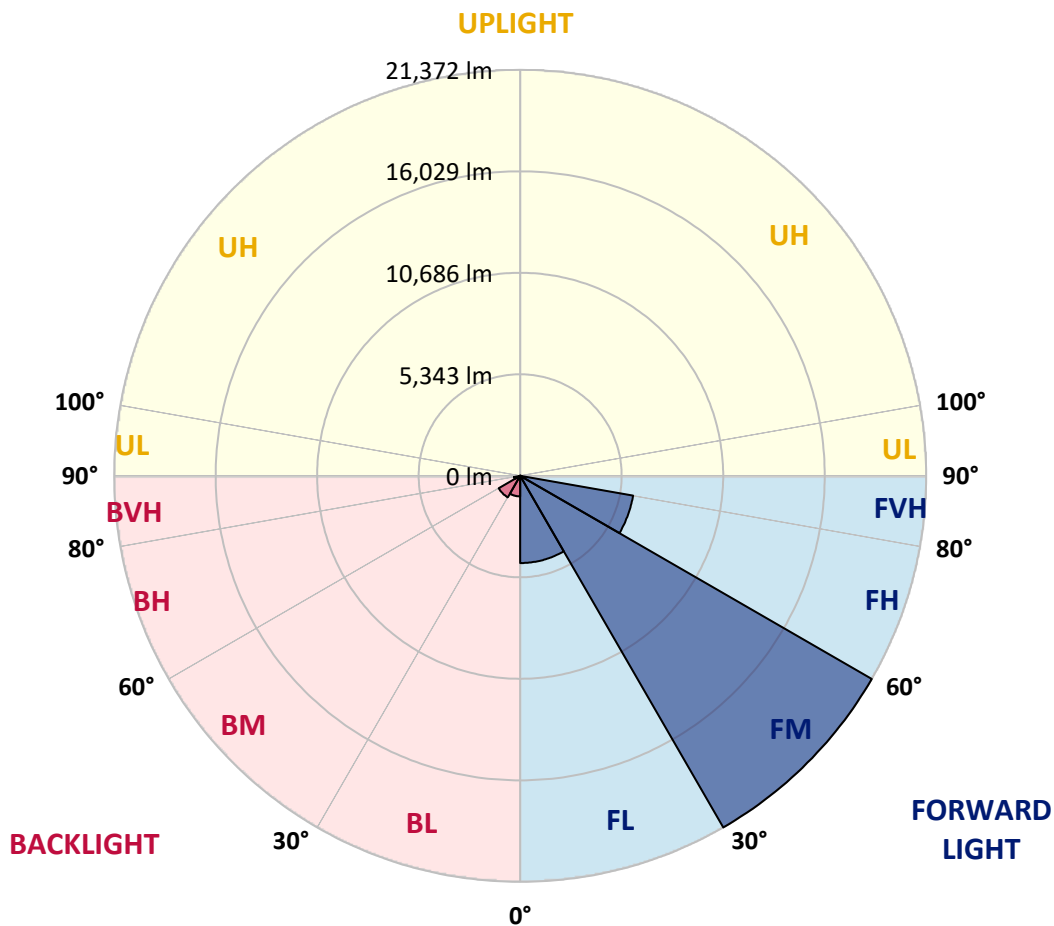
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4592.0	13.2			
FM	(30°-60°)	21371.7	61.5			
FH	(60°-80°)	6034.3	17.4			G3/7500
FVH	(80°-90°)	59.3	0.2			G1/100
BL	(0°-30°)	1084.2	3.1	B3/2500		
BM	(30°-60°)	1304.2	3.8	B2/2500		
BH	(60°-80°)	323.0	0.9	B1/500		G1/500
BVH	(80°-90°)	4.3	0.0			G0/10
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°	8379.4	8379.4	8379.4	8379.4	8379.4	8379.4	8379.4	8379.4	8379.4	8379.4	8379.4
2.5°	10397.1	10266.3	10247.0	10221.3	9972.6	9786.0	9515.8	9220.0	8887.6	8548.8	8398.7
5°	12011.7	11908.7	11889.5	11769.4	11486.3	11169.0	10688.7	10081.9	9462.2	8733.2	8420.2
7.5°	12324.7	12305.4	12393.3	12389.0	12350.4	12099.6	11694.3	10971.7	10041.2	8960.5	8475.9
10°	10928.9	10978.2	11239.8	11469.2	12088.9	12449.1	12361.2	11765.1	10637.3	9220.0	8538.1
12.5°	9657.4	9599.5	9786.0	10045.5	10765.9	11838.0	12637.8	12427.6	11319.1	9513.7	8630.3
15°	8859.7	8836.1	8941.2	9061.3	9610.2	10690.9	12316.1	12965.8	11975.2	9861.1	8769.7
17.5°	8604.6	8585.3	8617.4	8647.5	9003.4	9839.6	11550.7	13296.0	12603.5	10257.7	8924.1
20°	8812.6	8786.8	8782.5	8759.0	8906.9	9477.3	10858.1	13319.6	13167.4	10618.0	9057.0
22.5°	9419.4	9389.3	9284.3	9189.9	9202.8	9526.6	10549.3	13083.8	13591.9	10954.6	9140.6
25°	10519.3	10470.0	10251.3	9934.0	9732.4	9869.6	10596.5	12772.9	13997.2	11218.3	9099.9
27.5°	11895.9	11831.6	11550.7	11079.0	10618.0	10450.7	10937.4	12558.4	14333.8	11419.9	9012.0
30°	13244.6	13160.9	12884.3	12517.7	11844.4	11317.0	11552.8	12652.8	14734.8	11630.0	8896.2
32.5°	14700.5	14621.1	14254.5	13799.9	13242.4	12532.7	12395.5	13113.8	15225.8	11923.8	8814.7
35°	16542.3	16417.9	15896.9	15277.2	14685.5	13967.2	13536.2	13909.3	15879.8	12371.9	8859.7
37.5°	18639.3	18472.1	17910.3	17054.8	16282.9	15478.8	14925.6	15002.8	16838.2	12972.3	8999.1
40°	20616.2	20464.0	19945.1	19138.9	18169.7	17194.1	16604.5	16433.0	18161.2	13703.4	9243.5
42.5°	21802.0	21664.7	21446.0	21105.1	20288.2	19293.3	18549.3	18178.3	19726.4	14578.2	9541.6
45°	21868.4	21748.4	22042.1	22438.8	22278.0	21615.4	20708.4	20028.7	21298.1	15399.5	9850.3
47.5°	20804.9	20723.5	21615.4	23000.6	23691.0	23969.7	23133.5	21724.8	22595.3	15989.1	9976.8
50°	17906.0	17876.0	19711.4	22254.4	24229.2	26032.4	25691.5	23302.9	23600.9	16293.6	9856.8
52.5°	15526.0	15416.6	16486.6	19865.8	23446.6	27117.4	28191.6	24851.0	24304.2	16351.5	9575.9
55°	11775.8	11679.3	13021.6	15869.0	20922.9	26731.4	30020.6	26448.4	24808.1	16203.5	9072.0
57.5°	6316.7	6256.7	7952.7	10562.2	16355.8	24415.7	30350.8	28138.0	25232.7	15811.1	8366.6
60°	2459.4	2448.6	3083.3	5124.6	9940.4	19863.6	28684.8	29152.2	25498.5	15328.7	7776.9
62.5°	1488.1	1520.2	1623.1	2300.7	4391.3	12339.7	24844.6	27998.6	25676.5	14887.0	7290.2
65°	1230.8	1232.9	1245.8	1580.3	2103.4	5163.2	18703.6	24203.4	25236.9	14100.1	6599.8
67.5°	1054.9	1074.2	1123.5	1254.3	1483.8	2264.2	10768.0	18748.7	22563.2	12269.0	5523.4
70°	831.9	857.7	919.9	1031.3	1145.0	1417.3	3979.6	12474.8	17237.0	9247.8	4176.9
72.5°	701.1	699.0	731.2	838.4	909.1	997.0	1530.9	6990.0	10017.6	4414.9	2067.0
75°	542.5	563.9	604.7	701.1	744.0	722.6	829.8	2553.7	3589.3	1338.0	703.3
77.5°	424.5	441.7	478.2	572.5	615.4	512.5	478.2	913.4	1153.6	480.3	317.3
80°	190.8	205.8	325.9	422.4	501.7	353.8	259.4	467.4	512.5	218.7	160.8
82.5°	34.3	57.9	190.8	223.0	257.3	229.4	135.1	242.3	250.9	87.9	55.7
85°	2.1	4.3	66.5	81.5	102.9	75.0	40.7	96.5	83.6	30.0	21.4
87.5°	0.0	0.0	0.0	2.1	2.1	10.7	12.9	17.2	12.9	10.7	8.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8379.4	8379.4	8379.4	8379.4	8379.4	8379.4	8379.4	8379.4	8379.4	8379.4
2.5°	8244.4	7939.9	7644.0	7401.7	7260.2	7020.0	6861.4	6835.6	6769.2	6827.1
5°	8085.7	7541.1	6990.0	6496.9	6091.6	5568.4	5178.2	5013.1	4869.4	4918.7
7.5°	8010.6	7150.8	6293.2	5450.5	4584.2	3748.0	3126.2	2866.8	2669.5	2697.4
10°	7909.9	6745.6	5401.2	4114.7	2954.7	2129.2	1700.3	1541.7	1453.8	1455.9
12.5°	7832.7	6261.0	4365.5	2789.6	1799.0	1359.4	1226.5	1187.9	1162.1	1164.3
15°	7794.1	5690.6	3342.8	1859.0	1286.5	1151.4	1119.3	1102.1	1085.0	1082.8
17.5°	7729.8	5056.0	2446.5	1357.3	1125.7	1078.5	1050.6	1031.3	1009.9	1005.6
20°	7633.3	4335.5	1788.2	1147.1	1054.9	1018.5	979.9	954.2	928.4	924.1
22.5°	7455.3	3574.3	1374.4	1061.4	1003.5	962.7	915.6	885.5	859.8	855.5
25°	7125.1	2860.3	1157.9	1007.8	958.4	909.1	857.7	816.9	793.3	789.1
27.5°	6707.0	2247.1	1050.6	958.4	900.6	855.5	797.6	759.0	737.6	733.3
30°	6213.8	1730.3	988.5	902.7	831.9	793.3	741.9	709.7	696.9	696.9
32.5°	5682.1	1383.0	962.7	846.9	771.9	729.0	688.3	675.4	671.1	669.0
35°	5182.5	1200.7	949.9	801.9	718.3	677.6	660.4	662.6	671.1	671.1
37.5°	4738.6	1142.8	943.4	769.8	671.1	634.7	645.4	664.7	656.1	656.1
40°	4337.7	1149.3	939.1	746.2	632.5	611.1	632.5	617.5	596.1	593.9
42.5°	4031.0	1202.9	930.6	726.9	608.9	593.9	585.4	561.8	559.6	563.9
45°	3808.1	1250.1	928.4	718.3	583.2	555.3	544.6	521.0	563.9	574.6
47.5°	3544.3	1250.1	928.4	688.3	540.3	529.6	512.5	486.7	529.6	540.3
50°	3203.4	1170.7	892.0	654.0	506.0	499.6	469.6	437.4	428.8	435.3
52.5°	2772.4	1027.1	799.8	606.8	471.7	458.9	422.4	398.8	392.4	392.4
55°	2281.4	859.8	675.4	538.2	435.3	411.7	386.0	375.2	368.8	364.5
57.5°	1854.7	705.4	542.5	478.2	401.0	370.9	362.4	349.5	338.8	332.3
60°	1522.4	555.3	448.1	424.5	366.7	338.8	336.6	319.5	291.6	287.3
62.5°	1175.0	407.4	377.4	368.8	332.3	308.8	304.5	270.2	227.3	218.7
65°	829.8	317.3	304.5	323.8	295.9	274.5	263.7	212.3	167.2	160.8
67.5°	583.2	265.9	240.1	283.0	257.3	229.4	223.0	180.1	139.4	135.1
70°	416.0	216.6	197.3	242.3	205.8	201.6	188.7	150.1	113.6	109.4
72.5°	293.8	165.1	152.2	210.1	141.5	173.7	154.4	115.8	85.8	81.5
75°	216.6	117.9	107.2	122.2	102.9	130.8	109.4	77.2	53.6	51.5
77.5°	158.7	75.0	64.3	60.0	60.0	81.5	60.0	32.2	23.6	21.4
80°	111.5	34.3	30.0	25.7	23.6	19.3	8.6	4.3	2.1	2.1
82.5°	66.5	15.0	15.0	10.7	6.4	0.0	0.0	0.0	0.0	0.0
85°	15.0	6.4	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	2.1	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

(END OF REPORT)