

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: P945941

Luminaire Tested: **GALN-SB1D-727-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945941
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7273 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 79.6
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



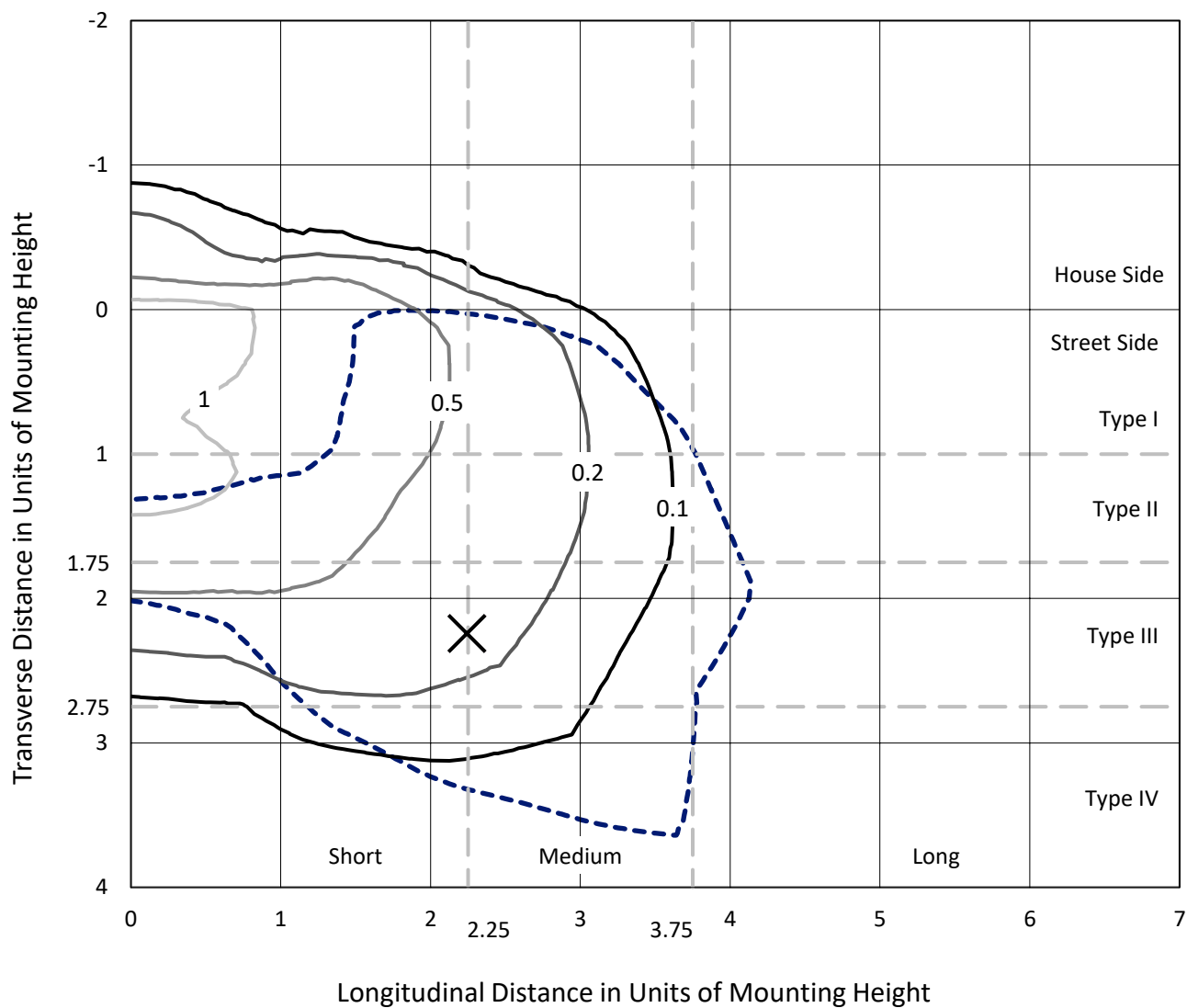
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

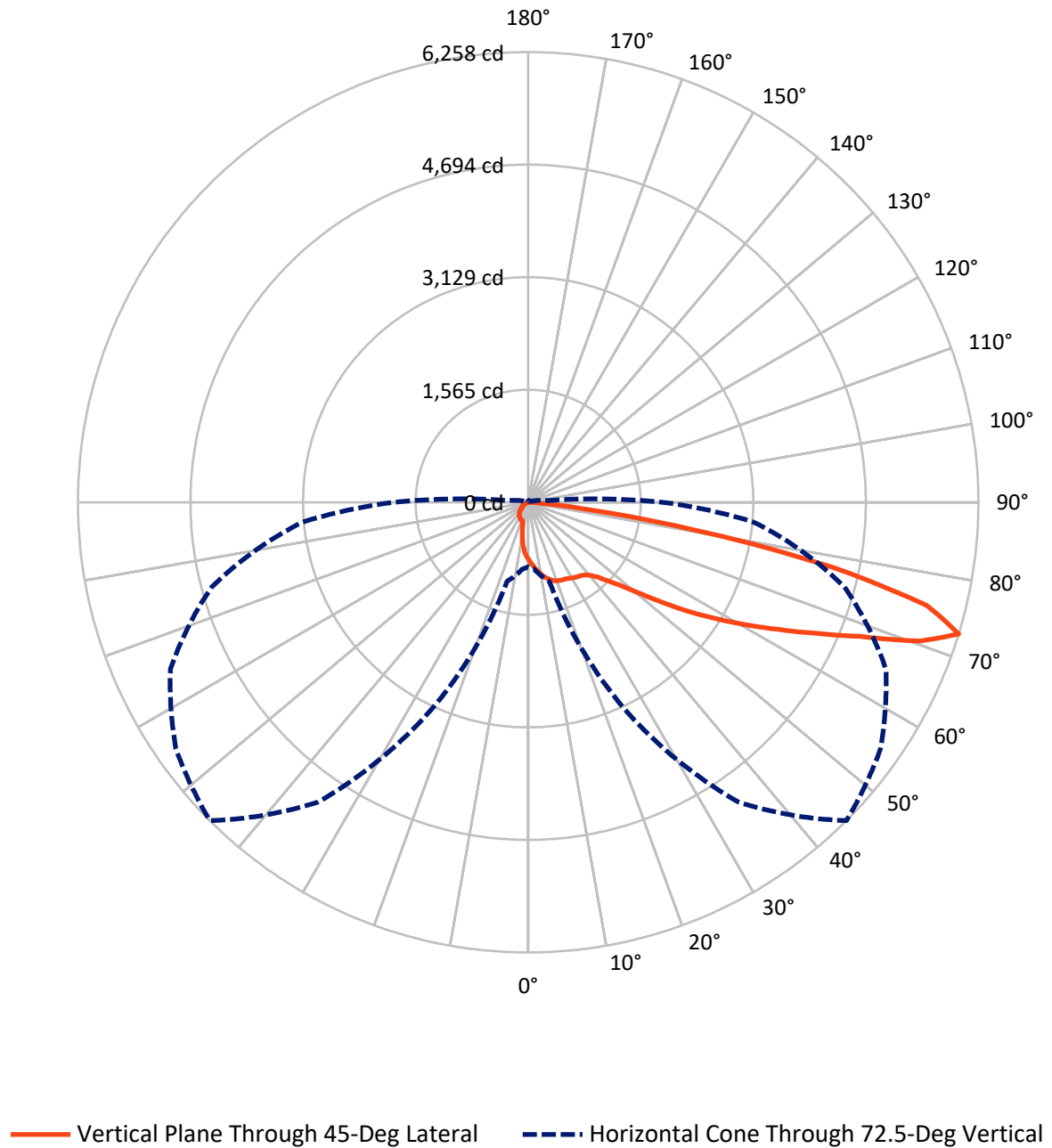
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	764.2	0.0	764.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	6508.8	0.0	6508.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	7273.0	0.0	7273.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.1	1.0
10°-20°	219.4	3.0
20°-30°	360.3	5.0
30°-40°	511.0	7.0
40°-50°	844.6	11.6
50°-60°	1517.2	20.9
60°-70°	2106.8	29.0
70°-80°	1528.2	21.0
80°-90°	110.5	1.5
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°	7273.0	100.0
0°-180°	7273.0	100.0

Coefficient of Utilization



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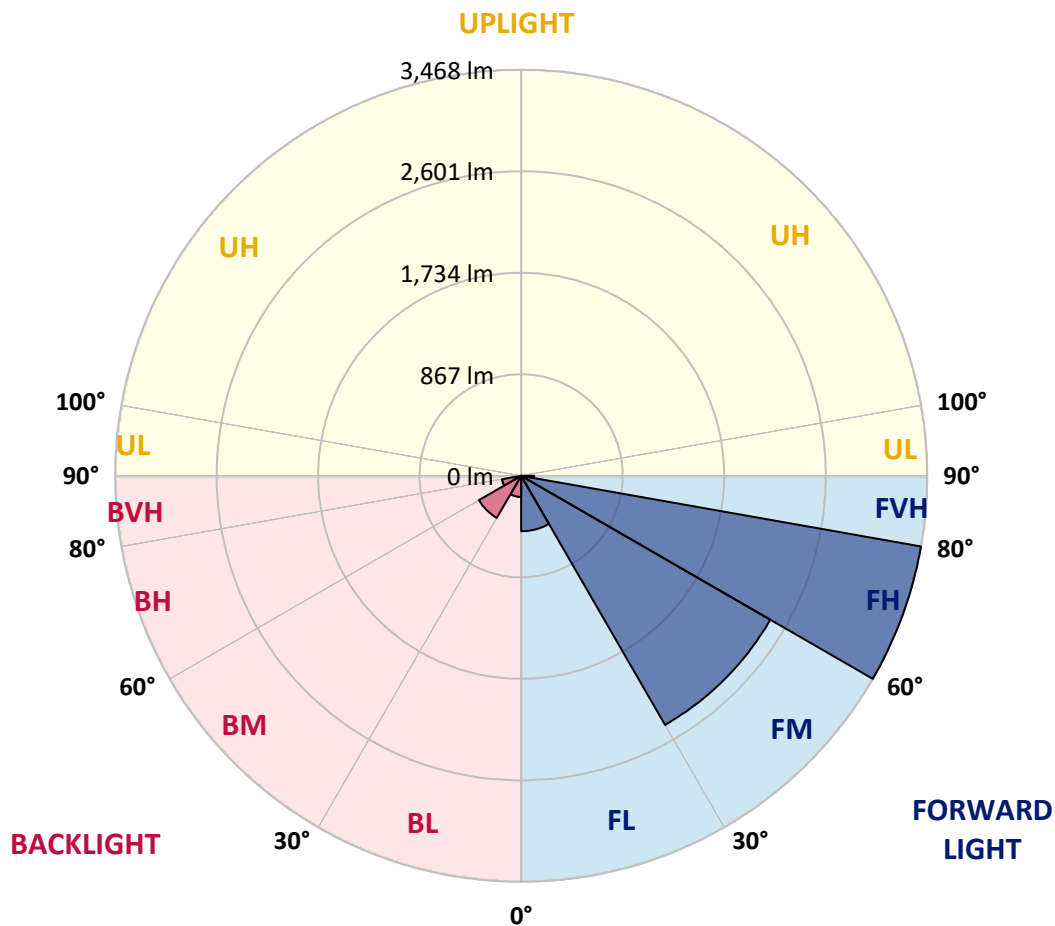
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	473.8	6.5			
FM	(30°-60°)	2457.2	33.8			
FH	(60°-80°)	3468.3	47.7			G2/5000
FVH	(80°-90°)	109.6	1.5			G2/225
BL	(0°-30°)	181.0	2.5	B1/500		
BM	(30°-60°)	415.6	5.7	B1/1000		
BH	(60°-80°)	166.7	2.3	B1/500		G1/500
BVH	(80°-90°)	0.9	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	796.8	796.8	796.8	796.8	796.8	796.8	796.8	796.8	796.8	796.8	796.8
2.5°	870.2	871.7	870.7	864.8	854.9	849.4	846.4	836.5	830.0	818.6	806.7
5°	950.2	956.1	952.7	940.7	921.9	908.5	904.5	884.1	865.8	844.4	819.6
7.5°	1035.1	1038.0	1031.6	1016.2	990.9	968.0	964.6	936.3	907.0	874.2	840.5
10°	1108.5	1112.0	1102.1	1079.7	1050.9	1022.6	1017.7	986.4	951.7	911.4	868.3
12.5°	1170.1	1173.6	1160.7	1133.8	1102.1	1072.8	1067.8	1035.1	996.8	952.2	898.5
15°	1216.8	1223.2	1205.8	1177.0	1142.8	1113.5	1111.0	1078.7	1041.5	991.9	934.8
17.5°	1244.1	1250.5	1234.1	1199.4	1170.1	1145.3	1142.3	1115.5	1080.7	1033.1	970.0
20°	1248.5	1254.5	1237.1	1206.8	1182.5	1162.6	1161.2	1141.8	1116.5	1070.8	1008.3
22.5°	1235.1	1242.6	1226.7	1202.4	1185.5	1175.1	1173.1	1162.1	1147.7	1109.0	1044.0
25°	1221.2	1227.2	1215.3	1193.9	1185.0	1184.0	1185.5	1183.5	1180.5	1147.7	1085.7
27.5°	1220.2	1226.7	1213.3	1192.9	1188.0	1198.4	1199.9	1209.3	1211.8	1183.0	1125.9
30°	1228.7	1233.1	1220.2	1198.9	1196.4	1220.2	1220.7	1237.6	1241.6	1212.8	1165.6
32.5°	1247.0	1252.0	1239.1	1207.8	1204.3	1237.6	1239.1	1261.4	1267.9	1244.6	1207.3
35°	1290.2	1296.2	1281.3	1232.6	1220.2	1254.0	1258.5	1284.8	1297.7	1278.3	1250.5
37.5°	1398.0	1380.6	1360.2	1282.8	1256.5	1279.8	1287.2	1318.0	1340.9	1318.5	1302.1
40°	1665.5	1610.9	1547.4	1368.2	1320.0	1334.9	1340.9	1371.6	1402.9	1381.1	1373.1
42.5°	2067.1	2002.6	1900.3	1564.8	1415.8	1423.3	1427.7	1454.5	1498.7	1481.4	1483.3
45°	2425.1	2401.7	2297.5	1900.3	1595.0	1558.3	1563.8	1577.7	1642.7	1636.2	1649.1
47.5°	2700.1	2686.7	2606.3	2285.6	1897.9	1723.6	1739.0	1745.5	1839.3	1862.1	1896.9
50°	2911.6	2906.6	2834.6	2628.1	2293.5	1967.4	1972.8	1958.9	2099.4	2156.0	2222.0
52.5°	3111.1	3128.0	3074.9	2946.3	2716.0	2286.6	2285.6	2220.0	2409.7	2495.1	2607.8
55°	3291.3	3297.3	3302.8	3271.0	3140.9	2650.0	2640.5	2533.3	2769.6	2858.0	2980.1
57.5°	3460.6	3463.1	3511.8	3576.8	3583.2	3040.1	3022.8	2894.2	3162.8	3225.8	3300.8
60°	3574.3	3585.7	3688.5	3869.2	3948.1	3442.8	3433.3	3302.3	3562.9	3592.2	3578.3
62.5°	3410.5	3480.0	3739.1	4097.5	4292.6	3889.0	3884.6	3761.5	3983.9	3960.0	3840.9
65°	2760.7	2878.3	3334.0	4251.9	4630.7	4387.5	4393.9	4262.9	4416.3	4338.8	4054.4
67.5°	1931.1	2055.2	2594.4	4264.3	5008.5	4972.8	5010.0	4804.5	4875.5	4701.7	4105.0
70°	1335.4	1399.4	1750.4	3997.3	5302.9	5779.0	5778.0	5469.7	5332.2	4867.0	3846.8
72.5°	898.0	931.3	1136.8	3171.2	5086.4	6258.0	6229.2	5978.0	5486.1	4551.8	3142.9
75°	378.8	403.1	526.2	1782.2	4024.1	5725.3	5647.4	5283.0	4874.5	3584.2	1960.9
77.5°	120.1	130.6	207.5	637.9	2216.6	4303.6	4221.2	3299.3	3267.0	1798.1	716.8
80°	57.1	66.5	116.7	256.2	872.2	2340.7	2329.3	1496.7	1405.4	485.5	144.0
82.5°	24.8	29.3	64.5	137.0	390.2	835.0	851.9	509.3	421.5	184.2	44.2
85°	7.9	10.4	29.8	63.0	164.8	207.5	205.0	121.1	169.8	100.3	15.4
87.5°	0.0	0.0	9.9	14.4	16.9	11.9	13.4	10.4	47.2	27.8	5.5
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°	796.8	796.8	796.8	796.8	796.8	796.8	796.8	796.8	796.8	796.8	796.8
2.5°	800.7	792.8	778.9	766.0	754.6	743.2	736.2	726.3	725.3	725.3	727.8
5°	806.2	793.3	768.5	742.2	711.9	683.1	654.3	626.5	617.6	611.1	614.1
7.5°	822.1	801.7	762.5	712.4	654.8	591.7	547.6	499.9	481.5	471.6	473.1
10°	844.9	817.1	757.6	669.7	576.4	490.5	427.4	375.8	355.9	347.5	347.5
12.5°	870.2	836.0	748.6	616.6	490.5	387.7	326.2	302.3	299.3	299.3	299.3
15°	900.5	858.8	733.2	554.0	400.6	306.8	285.0	285.9	288.9	290.9	290.9
17.5°	931.8	883.2	708.9	484.0	321.2	276.0	276.5	278.0	280.5	282.5	282.5
20°	965.6	907.5	676.6	409.6	275.5	267.1	268.6	270.1	272.0	273.0	273.5
22.5°	1001.8	930.3	638.4	336.6	260.1	259.6	260.1	261.6	264.1	264.1	265.1
25°	1040.5	955.6	594.7	283.5	252.2	252.2	253.2	254.2	256.2	256.2	256.7
27.5°	1080.2	979.0	548.6	255.7	245.2	244.7	244.7	246.2	247.2	247.7	248.2
30°	1123.9	1006.3	502.4	249.7	239.8	237.3	235.8	236.8	237.8	238.3	239.3
32.5°	1168.6	1032.6	461.2	252.2	234.3	229.8	224.9	223.9	223.9	225.9	227.4
35°	1218.2	1061.4	429.4	260.6	231.3	218.9	211.0	206.5	207.0	210.0	211.5
37.5°	1277.8	1096.1	406.1	268.1	229.4	206.5	193.6	188.1	184.7	188.1	187.2
40°	1355.8	1147.3	389.2	274.0	226.9	192.1	174.7	165.8	159.4	161.3	160.3
42.5°	1470.4	1227.7	382.7	274.5	221.4	175.2	155.4	143.5	134.0	134.5	132.5
45°	1631.3	1354.8	416.0	268.1	209.5	156.9	135.0	119.1	113.2	111.7	109.7
47.5°	1851.7	1539.9	493.0	254.7	192.1	139.0	115.2	101.8	97.3	94.8	93.3
50°	2147.1	1777.7	578.3	239.8	174.7	122.1	98.8	90.4	87.4	84.9	84.4
52.5°	2489.6	2019.0	648.3	224.9	157.4	107.2	88.4	83.4	80.9	78.9	78.4
55°	2803.8	2185.3	644.4	209.0	140.5	95.3	80.9	77.9	75.0	73.0	72.0
57.5°	2999.4	2208.6	531.2	191.6	121.1	85.9	74.0	72.0	68.5	66.0	65.5
60°	3089.3	2075.6	372.3	168.8	101.8	76.9	66.5	65.5	61.1	57.6	56.6
62.5°	3105.7	1828.4	248.2	140.5	84.9	68.5	59.1	57.6	51.6	45.7	42.7
65°	3039.2	1474.9	171.8	109.7	72.5	59.6	50.6	47.7	41.2	35.2	33.3
67.5°	2828.7	1035.6	119.6	78.9	61.6	47.2	40.2	39.2	34.3	29.3	27.8
70°	2442.9	590.3	79.9	59.1	48.7	32.3	31.8	32.8	27.8	23.8	21.8
72.5°	1873.0	270.1	49.6	43.2	33.3	21.8	25.3	25.8	21.3	17.9	15.9
75°	1102.6	115.7	31.3	27.8	16.9	14.4	18.4	18.9	14.4	11.4	9.9
77.5°	375.3	43.7	19.9	16.4	8.4	7.9	11.9	11.9	7.9	4.5	3.5
80°	85.4	16.4	9.9	6.5	4.0	3.5	4.0	3.5	2.0	0.5	0.0
82.5°	24.3	6.5	4.0	2.5	1.5	1.5	0.5	0.0	0.0	0.0	0.0
85°	7.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	0.5	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)