

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: P955563

Luminaire Tested: **GALN-SB8C-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955563
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-SB8C-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 615mA 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: 47892 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 399.8
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

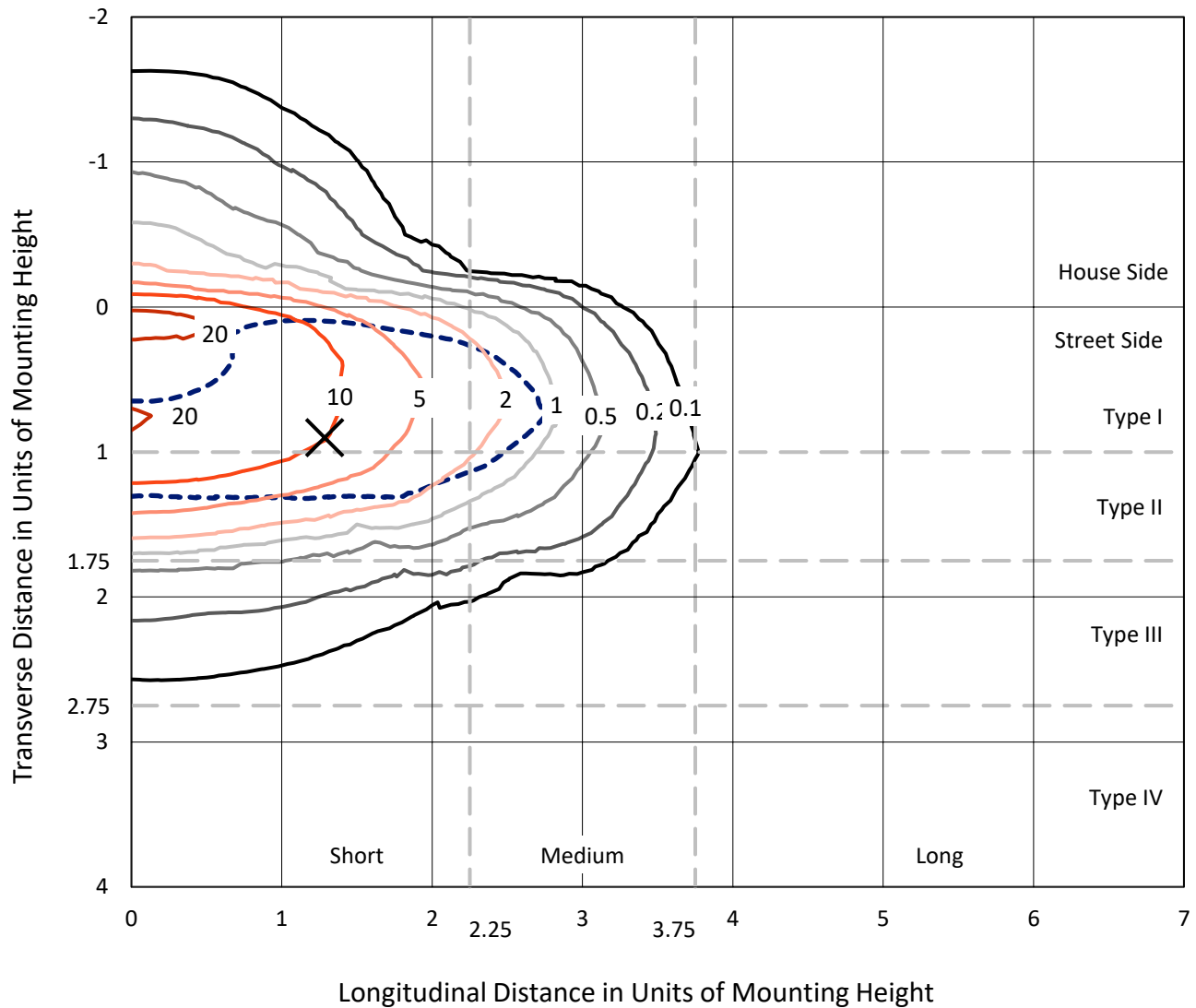


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Iso-Footcandle Lines of Horizontal Illumination

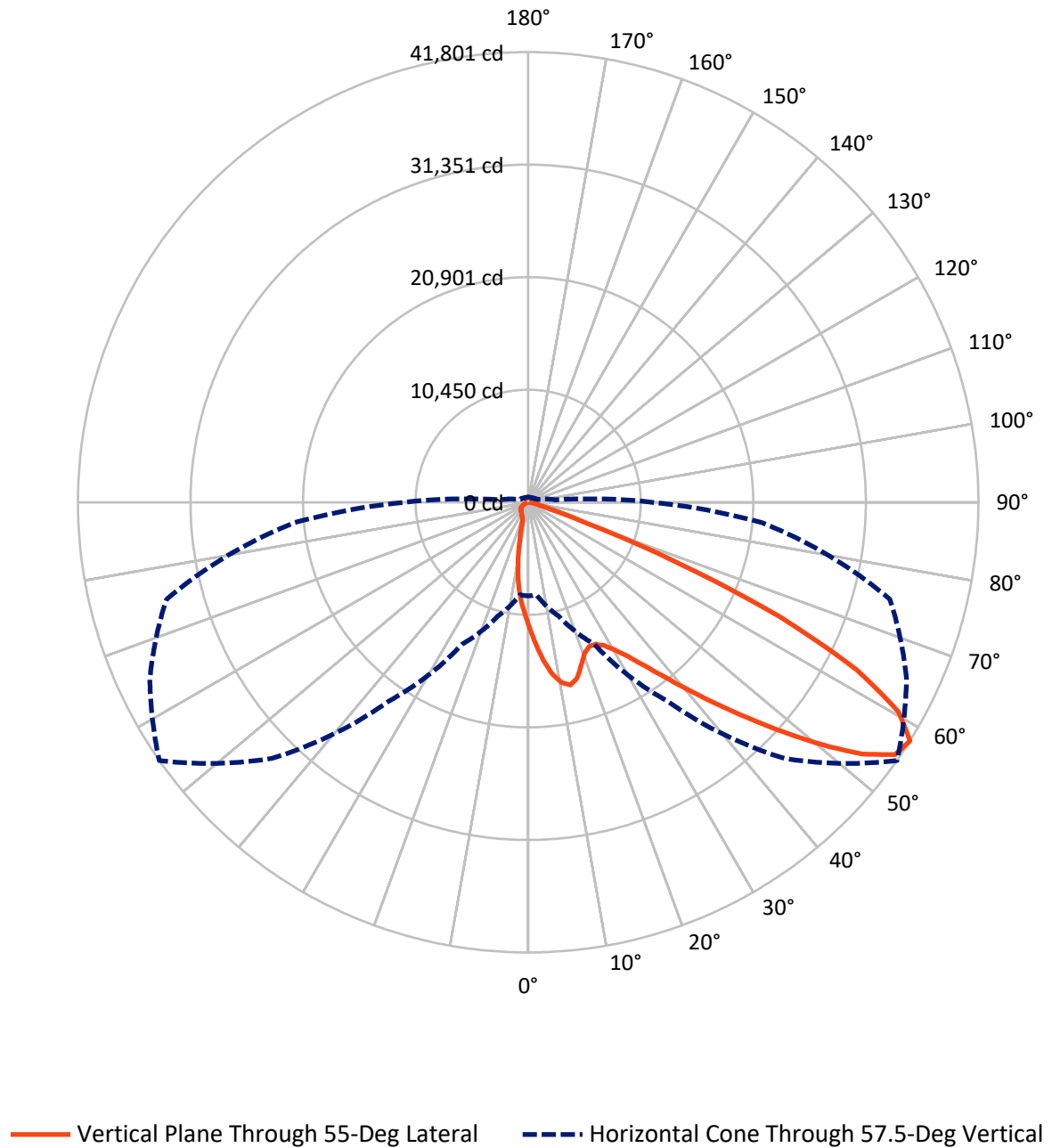
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3740.2	0.0	3740.2
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	44151.8	0.0	44151.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	47892.0	0.0	47892.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1073.8	2.2
10°-20°	2593.8	5.4
20°-30°	4150.0	8.7
30°-40°	7024.2	14.7
40°-50°	11532.2	24.1
50°-60°	12674.7	26.5
60°-70°	7270.2	15.2
70°-80°	1485.5	3.1
80°-90°	87.6	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°	47892.0	100.0
0°-180°	47892.0	100.0

Coefficient of Utilization



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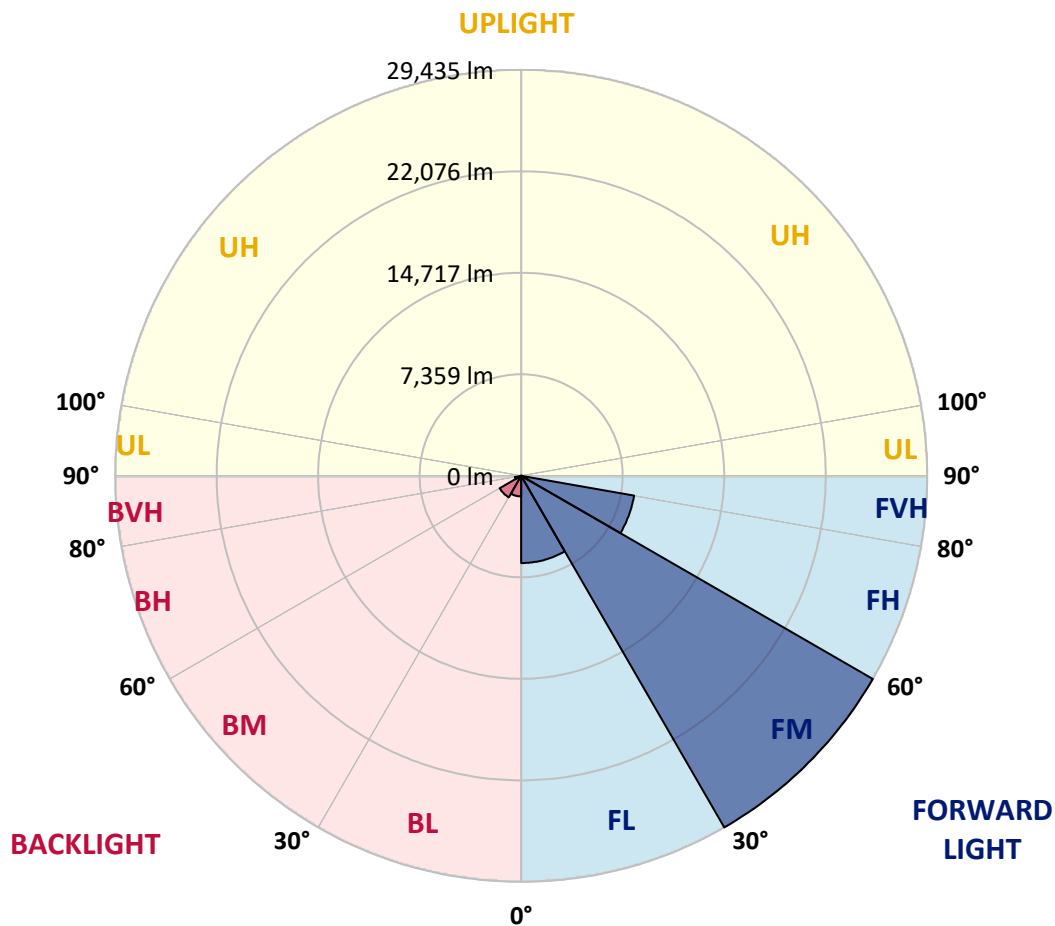
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6324.4	13.2			
FM	(30°-60°)	29434.8	61.5			
FH	(60°-80°)	8310.9	17.4			G4/12000
FVH	(80°-90°)	81.7	0.2			G1/100
BL	(0°-30°)	1493.2	3.1	B3/2500		
BM	(30°-60°)	1796.3	3.8	B2/2500		
BH	(60°-80°)	444.8	0.9	B1/500		G1/500
BVH	(80°-90°)	5.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	11540.8	11540.8	11540.8	11540.8	11540.8	11540.8	11540.8	11540.8	11540.8	11540.8	11540.8
2.5°	14319.7	14139.5	14113.0	14077.5	13735.0	13478.0	13105.9	12698.4	12240.7	11774.1	11567.4
5°	16543.4	16401.6	16375.0	16209.7	15819.9	15382.8	14721.3	13885.6	13032.1	12028.1	11596.9
7.5°	16974.5	16948.0	17069.0	17063.1	17010.0	16664.5	16106.3	15111.1	13829.5	12341.1	11673.7
10°	15052.1	15120.0	15480.3	15796.2	16649.7	17145.8	17024.7	16203.8	14650.4	12698.4	11759.3
12.5°	13300.9	13221.1	13478.0	13835.4	14827.6	16304.2	17405.7	17116.3	15589.5	13103.0	11886.3
15°	12202.3	12169.8	12314.5	12479.9	13235.9	14724.3	16962.7	17857.5	16493.2	13581.4	12078.3
17.5°	11850.9	11824.3	11868.6	11909.9	12400.1	13551.9	15908.5	18312.3	17358.4	14127.7	12290.9
20°	12137.3	12101.9	12096.0	12063.5	12267.3	13052.8	14954.6	18344.8	18135.1	14623.8	12474.0
22.5°	12973.1	12931.7	12787.0	12657.1	12674.8	13120.7	14529.3	18019.9	18719.8	15087.5	12589.1
25°	14488.0	14420.1	14118.9	13681.8	13404.2	13593.2	14594.3	17591.7	19278.0	15450.7	12533.0
27.5°	16383.9	16295.3	15908.5	15258.8	14623.8	14393.5	15063.9	17296.4	19741.6	15728.3	12412.0
30°	18241.4	18126.2	17745.3	17240.3	16313.0	15586.6	15911.4	17426.4	20293.8	16017.7	12252.5
32.5°	20246.6	20137.3	19632.3	19006.3	18238.5	17261.0	17072.0	18061.3	20970.1	16422.3	12140.3
35°	22783.3	22612.0	21894.4	21041.0	20225.9	19236.6	18643.0	19156.9	21870.8	17039.5	12202.3
37.5°	25671.5	25441.1	24667.4	23489.1	22426.0	21318.6	20556.7	20663.0	23190.8	17866.4	12394.2
40°	28394.2	28184.6	27469.9	26359.5	25024.7	23681.1	22869.0	22632.7	25012.9	18873.4	12730.9
42.5°	30027.3	29838.3	29537.1	29067.6	27942.4	26572.2	25547.4	25036.5	27168.7	20078.3	13141.4
45°	30118.9	29953.5	30358.1	30904.4	30682.9	29770.4	28521.2	27585.1	29333.3	21209.3	13566.6
47.5°	28654.1	28541.9	29770.4	31678.1	32629.0	33012.9	31861.2	29921.0	31120.0	22021.4	13740.9
50°	24661.5	24620.2	27148.0	30650.4	33370.3	35853.8	35384.3	32094.5	32505.0	22440.8	13575.5
52.5°	21383.5	21232.9	22706.5	27360.7	32292.4	37348.1	38827.6	34226.7	33473.6	22520.5	13188.6
55°	16218.5	16085.6	17934.3	21856.0	28816.5	36816.5	41346.6	36426.7	34167.6	22316.7	12494.6
57.5°	8699.9	8617.2	10953.1	14547.1	22526.4	33627.2	41801.4	38753.8	34752.3	21776.3	11523.1
60°	3387.2	3372.5	4246.6	7058.0	13690.7	27357.7	39506.8	40150.6	35118.5	21111.9	10711.0
62.5°	2049.5	2093.8	2235.5	3168.7	6048.0	16995.2	34217.8	38561.8	35363.6	20503.5	10040.6
65°	1695.1	1698.0	1715.8	2176.4	2897.0	7111.1	25760.1	33334.8	34758.2	19419.7	9089.7
67.5°	1452.9	1479.5	1547.4	1727.6	2043.6	3118.5	14830.6	25822.1	31075.7	16897.8	7607.2
70°	1145.8	1181.2	1266.9	1420.5	1577.0	1952.0	5481.0	17181.3	23740.1	12736.8	5752.7
72.5°	965.7	962.7	1007.0	1154.7	1252.1	1373.2	2108.5	9627.2	13797.0	6080.5	2846.8
75°	747.1	776.7	832.8	965.7	1024.7	995.2	1142.9	3517.2	4943.5	1842.7	968.6
77.5°	584.7	608.3	658.5	788.5	847.5	705.8	658.5	1258.0	1588.8	661.5	437.1
80°	262.8	283.5	448.9	581.8	691.0	487.3	357.3	643.8	705.8	301.2	221.5
82.5°	47.2	79.7	262.8	307.1	354.4	316.0	186.0	333.7	345.5	121.1	76.8
85°	3.0	5.9	91.5	112.2	141.7	103.4	56.1	132.9	115.2	41.3	29.5
87.5°	0.0	0.0	0.0	3.0	3.0	14.8	17.7	23.6	17.7	14.8	11.8
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°	11540.8	11540.8	11540.8	11540.8	11540.8	11540.8	11540.8	11540.8	11540.8	11540.8
2.5°	11354.7	10935.4	10527.9	10194.2	9999.3	9668.5	9450.0	9414.5	9323.0	9402.7
5°	11136.2	10386.1	9627.2	8948.0	8389.8	7669.3	7131.8	6904.4	6706.5	6774.5
7.5°	11032.9	9848.7	8667.4	7506.8	6313.8	5162.1	4305.6	3948.3	3676.6	3715.0
10°	10894.1	9290.5	7438.9	5667.0	4069.4	2932.4	2341.8	2123.3	2002.2	2005.2
12.5°	10787.7	8623.1	6012.6	3842.0	2477.7	1872.3	1689.2	1636.0	1600.6	1603.5
15°	10734.6	7837.6	4603.9	2560.4	1771.9	1585.8	1541.5	1517.9	1494.3	1491.3
17.5°	10646.0	6963.5	3369.5	1869.3	1550.4	1485.4	1447.0	1420.5	1390.9	1385.0
20°	10513.1	5971.2	2462.9	1579.9	1452.9	1402.7	1349.6	1314.1	1278.7	1272.8
22.5°	10268.0	4922.9	1892.9	1461.8	1382.1	1326.0	1261.0	1219.6	1184.2	1178.3
25°	9813.2	3939.5	1594.7	1388.0	1320.0	1252.1	1181.2	1125.1	1092.7	1086.7
27.5°	9237.4	3094.9	1447.0	1320.0	1240.3	1178.3	1098.6	1045.4	1015.9	1010.0
30°	8558.1	2383.2	1361.4	1243.3	1145.8	1092.7	1021.8	977.5	959.8	959.8
32.5°	7825.8	1904.8	1326.0	1166.5	1063.1	1004.1	948.0	930.2	924.3	921.4
35°	7137.7	1653.7	1308.2	1104.5	989.3	933.2	909.6	912.5	924.3	924.3
37.5°	6526.4	1574.0	1299.4	1060.2	924.3	874.1	888.9	915.5	903.7	903.7
40°	5974.2	1582.9	1293.5	1027.7	871.2	841.6	871.2	850.5	821.0	818.0
42.5°	5551.9	1656.7	1281.7	1001.1	838.7	818.0	806.2	773.7	770.8	776.7
45°	5244.7	1721.7	1278.7	989.3	803.2	764.9	750.1	717.6	776.7	791.4
47.5°	4881.5	1721.7	1278.7	948.0	744.2	729.4	705.8	670.4	729.4	744.2
50°	4412.0	1612.4	1228.5	900.7	696.9	688.1	646.7	602.4	590.6	599.5
52.5°	3818.4	1414.5	1101.5	835.7	649.7	632.0	581.8	549.3	540.4	540.4
55°	3142.1	1184.2	930.2	741.2	599.5	567.0	531.6	516.8	507.9	502.0
57.5°	2554.4	971.6	747.1	658.5	552.2	510.9	499.1	481.4	466.6	457.7
60°	2096.7	764.9	617.2	584.7	505.0	466.6	463.6	440.0	401.6	395.7
62.5°	1618.3	561.1	519.7	507.9	457.7	425.2	419.3	372.1	313.0	301.2
65°	1142.9	437.1	419.3	445.9	407.5	378.0	363.2	292.4	230.3	221.5
67.5°	803.2	366.2	330.7	389.8	354.4	316.0	307.1	248.1	192.0	186.0
70°	572.9	298.3	271.7	333.7	283.5	277.6	259.9	206.7	156.5	150.6
72.5°	404.6	227.4	209.7	289.4	194.9	239.2	212.6	159.5	118.1	112.2
75°	298.3	162.4	147.7	168.3	141.7	180.1	150.6	106.3	73.8	70.9
77.5°	218.5	103.4	88.6	82.7	82.7	112.2	82.7	44.3	32.5	29.5
80°	153.6	47.2	41.3	35.4	32.5	26.6	11.8	5.9	3.0	3.0
82.5°	91.5	20.7	20.7	14.8	8.9	0.0	0.0	0.0	0.0	0.0
85°	20.7	8.9	8.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	3.0	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

(END OF REPORT)