

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: P530489

Luminaire Tested: **GALN-SA5D-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-727-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24169 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

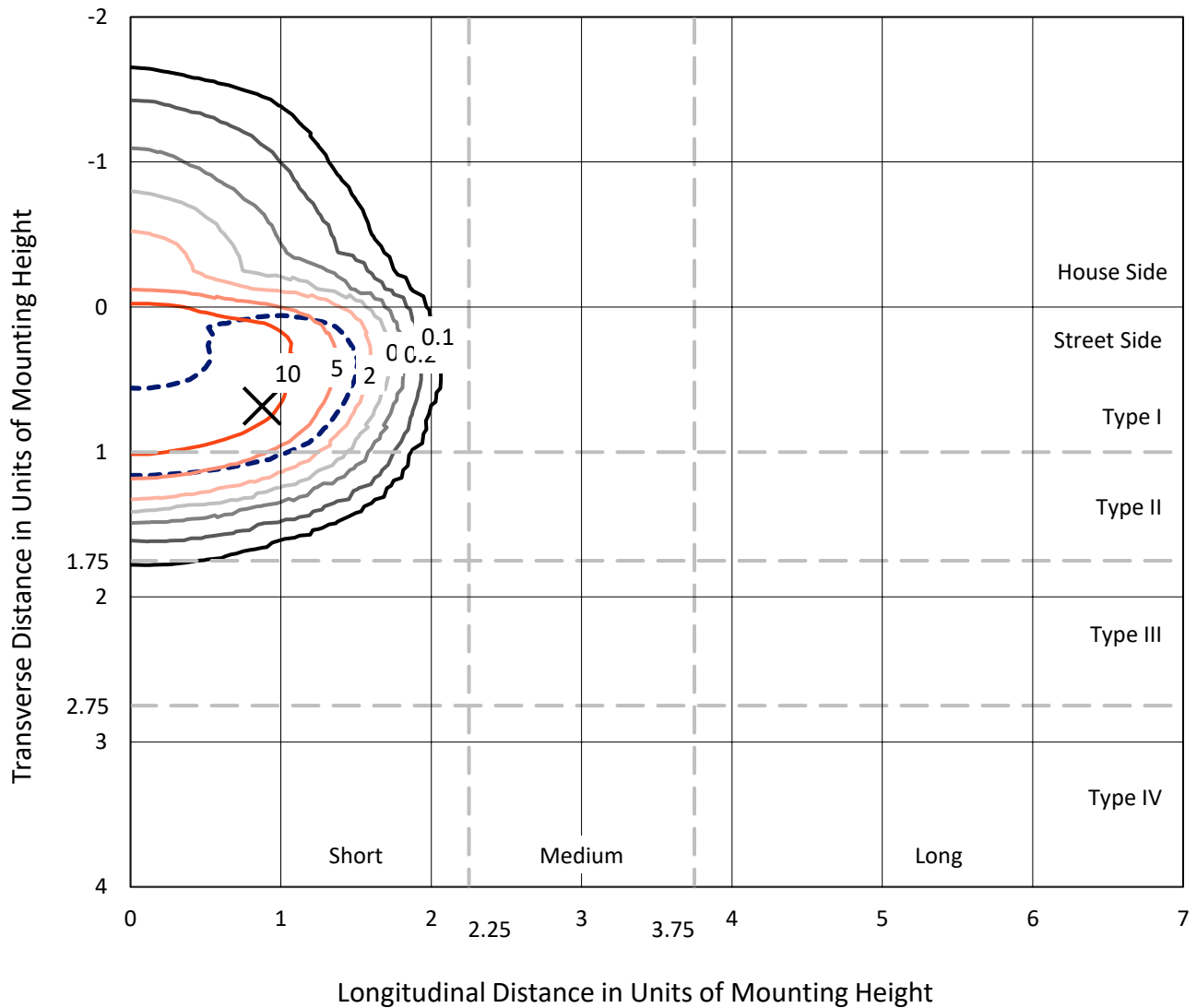
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

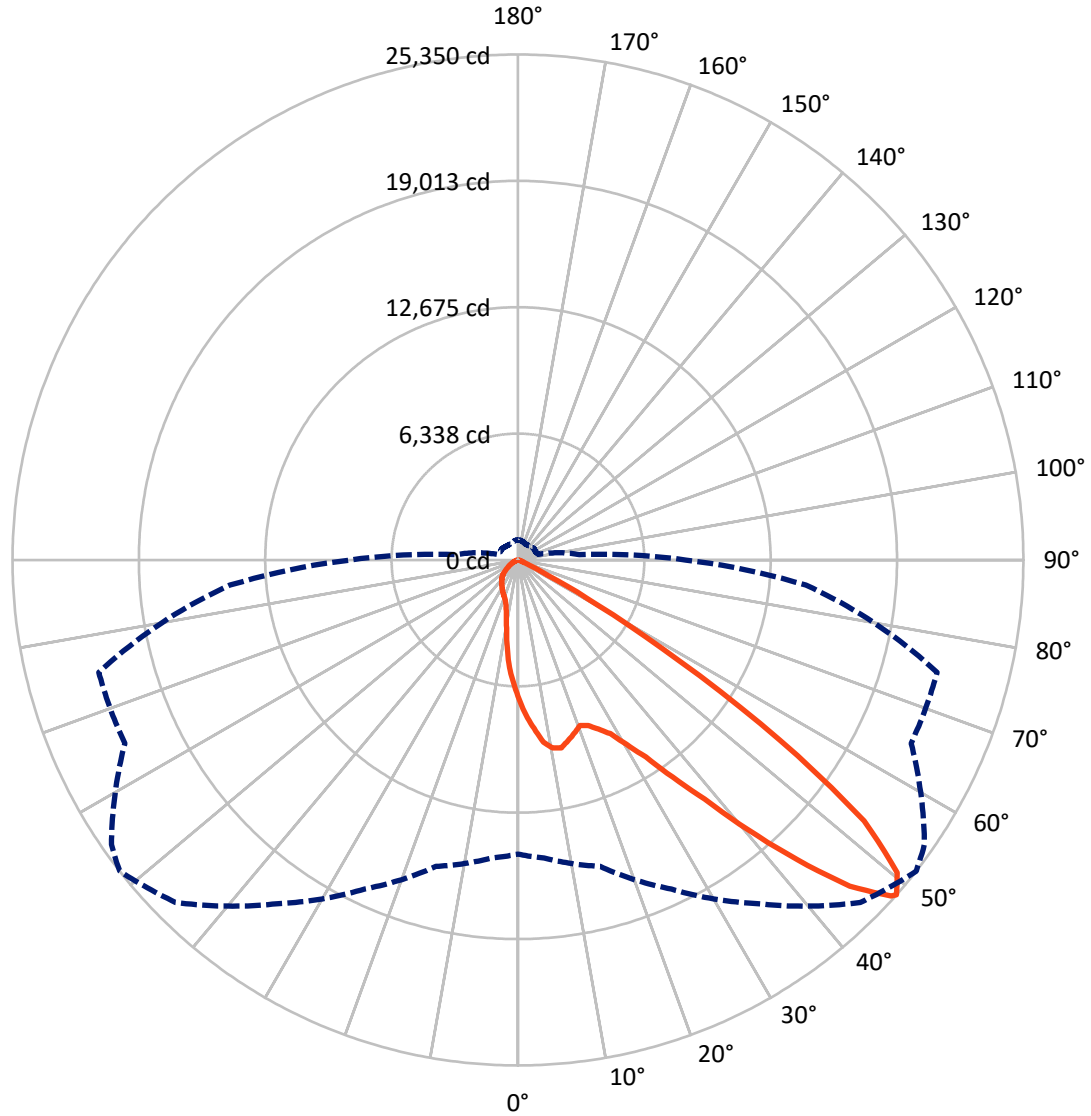
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2942.8	0.0	2942.8
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	21226.2	0.0	21226.2
	% Fixture	87.8	0.0	87.8
Total	Lumens	24169.0	0.0	24169.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	638.8	2.6
10°-20°	1669.5	6.9
20°-30°	2850.5	11.8
30°-40°	5249.2	21.7
40°-50°	8152.1	33.7
50°-60°	4906.2	20.3
60°-70°	567.5	2.3
70°-80°	109.8	0.5
80°-90°	25.4	0.1
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°	24169.0	100.0
0°-180°	24169.0	100.0

Coefficient of Utilization



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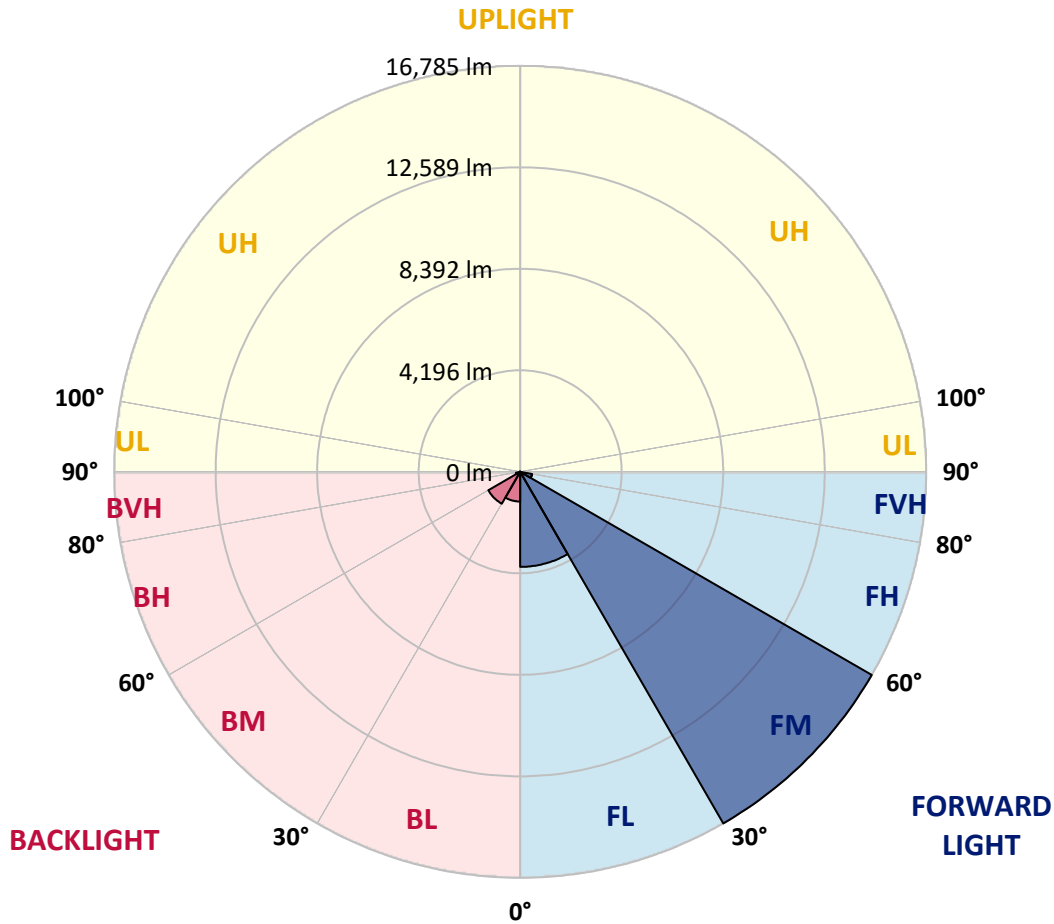
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3929.6	16.3			
FM (30°-60°)	16784.9	69.4			
FH (60°-80°)	499.7	2.1			G0/660
FVH (80°-90°)	12.1	0.1			G1/100
BL (0°-30°)	1229.3	5.1	B3/2500		
BM (30°-60°)	1522.6	6.3	B2/2500		
BH (60°-80°)	177.6	0.7	B1/500		G1/500
BVH (80°-90°)	13.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6979.6	6979.6	6979.6	6979.6	6979.6	6979.6	6979.6	6979.6	6979.6	6979.6	6979.6
2.5°	8459.4	8265.6	8283.2	8156.4	8082.4	7962.6	7800.5	7768.8	7592.7	7353.1	7110.0
5°	9220.4	9174.6	9234.5	9051.3	9058.3	8861.0	8480.5	8487.6	8082.4	7691.3	7314.3
7.5°	9269.7	9164.0	9223.9	9386.0	9481.1	9445.9	9231.0	9044.2	8660.2	8085.9	7536.3
10°	8300.8	8501.7	8565.1	8832.8	9213.4	9615.0	9590.4	9600.9	9280.3	8529.8	7726.5
12.5°	7719.5	7585.6	7800.5	7962.6	8536.9	9315.5	9671.4	9748.9	9773.6	8959.7	7916.8
15°	7455.2	7455.2	7490.5	7536.3	7952.0	8670.8	9396.6	9622.1	10154.1	9523.4	8216.3
17.5°	7620.8	7613.8	7663.1	7568.0	7723.0	8276.2	9142.9	9400.1	10580.4	10076.6	8452.3
20°	8124.7	8149.3	8117.6	7842.8	7853.4	8269.1	8861.0	9266.2	10869.3	10555.7	8765.9
22.5°	8825.8	8839.9	8660.2	8360.7	8272.6	8477.0	9023.1	9333.2	11101.8	11130.0	8861.0
25°	9636.2	9579.8	9544.5	9121.8	8854.0	9030.2	9389.5	9569.2	11246.3	11623.3	9132.3
27.5°	10760.1	10647.3	10432.4	10055.4	9858.1	9608.0	9865.2	10161.1	11658.5	12313.8	9428.3
30°	12419.5	12320.9	11901.6	11415.4	10897.5	10650.9	10731.9	10894.0	12401.9	13113.6	9819.4
32.5°	14917.5	14709.7	14103.7	13177.0	12472.4	11792.4	11771.3	11943.9	13067.8	14219.9	10284.4
35°	17669.2	17605.8	16714.4	15759.6	14396.1	13346.2	13363.8	13455.4	14343.2	15671.5	10894.0
37.5°	19497.8	19846.6	19279.4	18254.1	17109.0	15608.1	15227.6	15259.3	16094.3	17390.9	11993.2
40°	20910.6	20614.7	20681.6	20442.0	19659.9	18638.1	17796.1	17630.5	18120.2	19293.4	13085.4
42.5°	20294.1	20308.2	20720.4	21287.6	21481.4	21407.4	20547.7	20234.2	19853.6	20850.7	14124.8
45°	18553.6	18916.5	19452.0	20952.9	22270.6	23507.3	23338.2	22816.7	21051.6	22083.9	14723.8
47.5°	15777.2	15763.1	16640.4	18592.3	21520.2	24416.3	25184.4	24817.9	21900.7	21946.5	14600.4
48°	14751.9	15005.6	15911.1	18208.3	21044.5	24282.4	25350.0	24888.4	21756.2	21763.3	14494.7
50°	10904.5	10858.7	11986.2	14804.8	18796.7	22816.7	24652.3	25011.7	21752.7	20836.6	13754.9
52.5°	5760.6	5957.9	6778.8	9308.5	13289.8	18673.4	21745.6	22305.8	20984.6	19321.6	12690.8
55°	2448.7	2212.6	2843.3	4203.3	7476.4	12475.9	15953.4	17200.6	17743.2	17098.4	11101.8
57.5°	873.8	954.8	1099.3	1582.0	3142.8	6828.1	9512.8	10481.7	12292.7	12546.4	7564.5
60°	560.2	570.8	616.6	725.8	1180.3	2631.9	4513.3	5284.9	6105.8	6303.1	3530.3
62.5°	433.4	436.9	458.0	475.6	560.2	1021.7	1694.7	2008.3	2085.8	1793.3	926.6
65°	362.9	366.4	373.5	373.5	398.1	479.2	591.9	651.8	634.2	627.1	525.0
67.5°	278.3	285.4	299.5	299.5	313.6	292.4	327.7	348.8	394.6	479.2	447.5
70°	218.4	222.0	232.5	239.6	239.6	211.4	236.1	257.2	288.9	355.9	352.3
72.5°	169.1	176.2	183.2	183.2	172.6	144.5	169.1	186.7	207.9	246.6	239.6
75°	130.4	130.4	133.9	109.2	84.6	74.0	102.2	123.3	155.0	162.1	133.9
77.5°	35.2	38.8	35.2	31.7	35.2	52.8	66.9	77.5	98.7	98.7	88.1
80°	0.0	3.5	10.6	21.1	35.2	49.3	59.9	66.9	77.5	84.6	81.0
82.5°	0.0	3.5	10.6	21.1	31.7	38.8	52.8	56.4	63.4	74.0	74.0
85°	0.0	3.5	7.0	14.1	21.1	24.7	24.7	21.1	21.1	17.6	14.1
87.5°	0.0	0.0	3.5	7.0	7.0	10.6	10.6	10.6	10.6	10.6	10.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6979.6	6979.6	6979.6	6979.6	6979.6	6979.6	6979.6	6979.6	6979.6	6979.6	6979.6
2.5°	7014.8	6905.6	6740.0	6479.3	6229.1	6067.1	5912.1	5739.4	5644.3	5637.2	5584.4
5°	7099.4	6852.8	6458.2	6010.7	5531.5	5119.3	4703.6	4432.3	4189.2	4055.3	4030.6
7.5°	7145.2	6824.6	6186.9	5436.4	4619.0	3946.1	3481.0	3139.2	3005.4	2906.7	2903.2
10°	7240.3	6775.3	5781.7	4675.4	3664.2	2984.2	2663.6	2508.6	2434.6	2406.4	2364.1
12.5°	7310.8	6683.7	5365.9	3893.2	2896.1	2473.3	2332.4	2297.2	2300.7	2314.8	2297.2
15°	7409.4	6602.6	4805.7	3195.6	2431.1	2226.7	2226.7	2233.8	2283.1	2290.1	2286.6
17.5°	7402.4	6444.1	4227.9	2631.9	2149.2	2121.0	2131.6	2198.5	2230.2	2240.8	2216.1
20°	7487.0	6296.1	3632.5	2247.8	1990.6	2032.9	2103.4	2121.0	2159.8	2166.8	2138.6
22.5°	7462.3	5926.1	3079.3	1944.8	1870.9	1951.9	2022.4	2043.5	2032.9	2011.8	2008.3
25°	7416.5	5609.1	2572.0	1744.0	1782.8	1870.9	1937.8	1899.0	1877.9	1881.4	1885.0
27.5°	7335.5	5207.4	2152.7	1603.1	1663.0	1793.3	1789.8	1775.7	1796.9	1779.3	1796.9
30°	7321.4	4805.7	1807.4	1476.3	1574.9	1670.0	1677.1	1701.7	1726.4	1694.7	1726.4
32.5°	7342.5	4365.3	1560.8	1398.7	1522.1	1525.6	1603.1	1627.8	1610.1	1539.7	1546.7
35°	7504.6	4027.1	1381.1	1356.5	1437.5	1441.0	1515.0	1483.3	1405.8	1363.5	1388.2
37.5°	7846.3	3745.2	1296.6	1317.7	1324.8	1370.6	1374.1	1310.7	1317.7	1314.2	1328.3
40°	8283.2	3530.3	1236.7	1282.5	1275.4	1307.1	1180.3	1215.5	1247.2	1257.8	1264.9
42.5°	8582.7	3375.3	1197.9	1226.1	1212.0	1155.6	1085.2	1120.4	1145.1	1183.8	1190.9
45°	8716.6	3252.0	1152.1	1127.4	1127.4	1025.3	997.1	1004.1	1060.5	1102.8	1095.7
47.5°	8498.1	3132.2	1071.1	997.1	1021.7	937.2	905.5	905.5	965.4	1018.2	1007.7
48°	8413.6	3082.9	1074.6	968.9	986.5	923.1	891.4	884.3	951.3	1000.6	1000.6
50°	7994.3	2899.7	983.0	891.4	856.2	849.1	828.0	835.0	877.3	923.1	923.1
52.5°	7176.9	2505.0	831.5	764.6	701.1	743.4	754.0	739.9	761.0	803.3	799.8
55°	5989.6	1923.7	665.9	634.2	584.9	630.7	651.8	634.2	613.0	644.8	644.8
57.5°	3836.8	1035.8	532.0	539.1	489.7	535.5	553.2	510.9	472.1	496.8	493.3
60°	1729.9	620.1	436.9	426.3	394.6	447.5	475.6	426.3	373.5	391.1	408.7
62.5°	648.3	440.4	331.2	324.1	317.1	366.4	380.5	341.8	288.9	299.5	303.0
65°	475.6	387.6	264.2	239.6	253.7	288.9	281.9	243.1	207.9	207.9	214.9
67.5°	405.2	338.2	214.9	186.7	186.7	190.3	176.2	155.0	144.5	151.5	158.5
70°	317.1	267.8	169.1	144.5	130.4	116.3	102.2	98.7	88.1	98.7	95.1
72.5°	204.3	179.7	130.4	109.2	98.7	81.0	66.9	63.4	52.8	49.3	49.3
75°	109.2	109.2	102.2	88.1	77.5	63.4	52.8	42.3	28.2	21.1	21.1
77.5°	77.5	84.6	91.6	84.6	70.5	52.8	42.3	28.2	14.1	7.0	7.0
80°	74.0	84.6	91.6	81.0	70.5	52.8	38.8	21.1	10.6	3.5	3.5
82.5°	66.9	77.5	84.6	74.0	63.4	45.8	35.2	21.1	10.6	3.5	3.5
85°	14.1	17.6	21.1	21.1	24.7	31.7	24.7	17.6	7.0	3.5	3.5
87.5°	10.6	10.6	10.6	10.6	10.6	10.6	7.0	7.0	3.5	3.5	3.5
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)