

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: P456139

Luminaire Tested: **GALN-SA7B-827-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456139
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29420 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

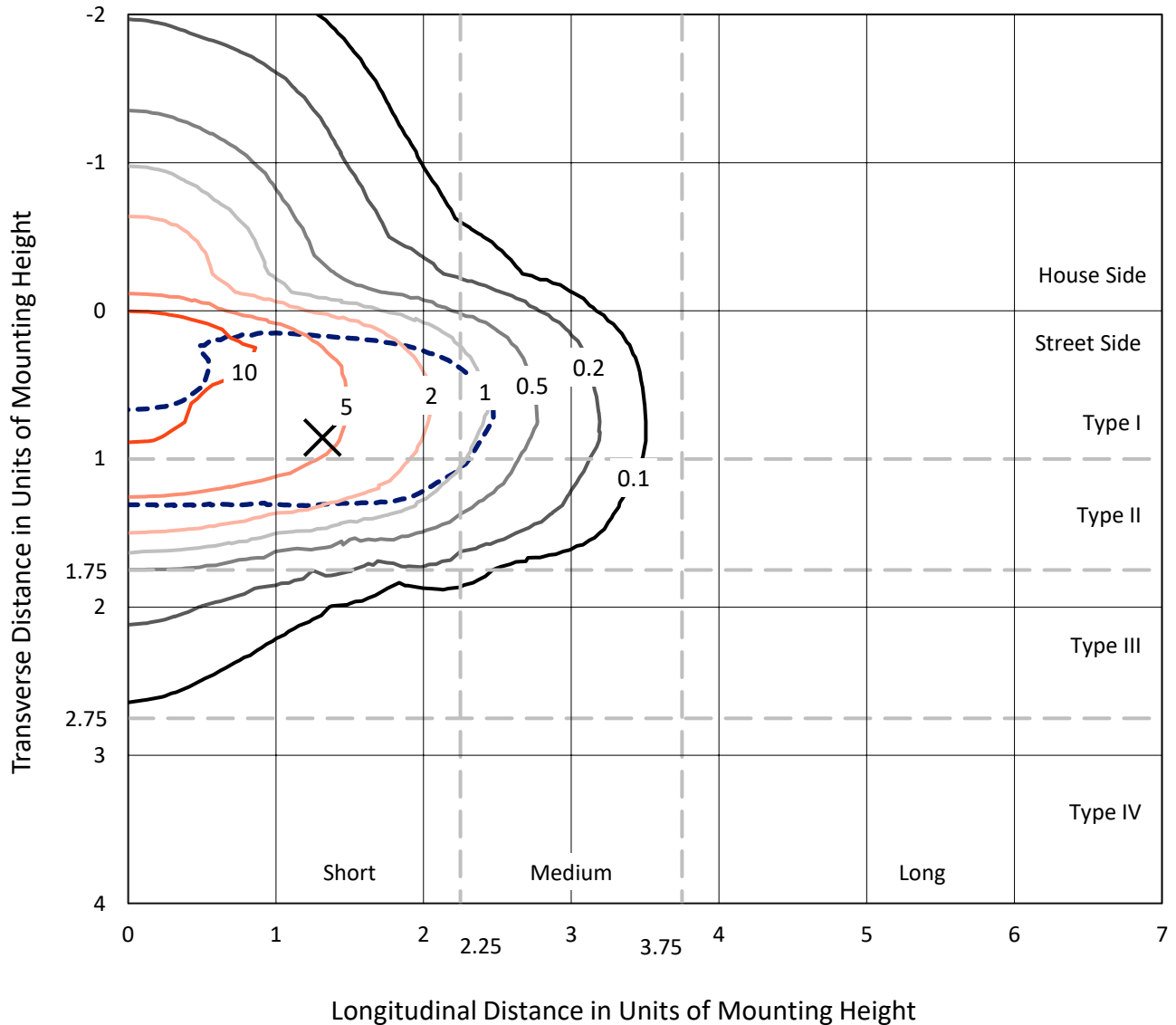
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

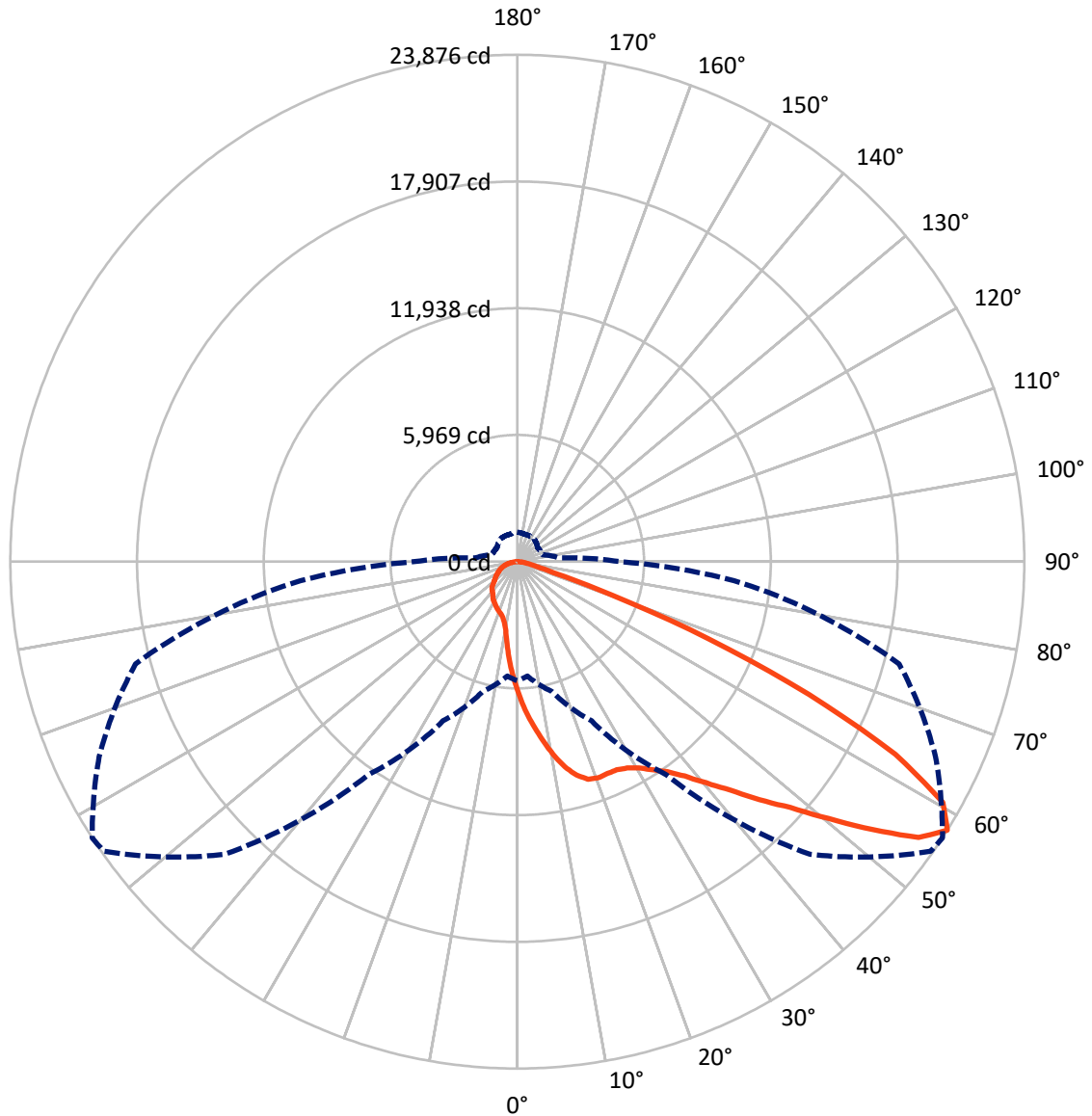
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4474.0	0.0	4474.0
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	24946.0	0.0	24946.0
	% Fixture	84.8	0.0	84.8
Total	Lumens	29420.0	0.0	29420.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.0	2.0
10°-20°	1750.7	6.0
20°-30°	2907.0	9.9
30°-40°	4378.8	14.9
40°-50°	6574.3	22.3
50°-60°	7369.0	25.0
60°-70°	4312.7	14.7
70°-80°	1275.7	4.3
80°-90°	257.8	0.9
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°	29420.0	100.0
0°-180°	29420.0	100.0

Coefficient of Utilization



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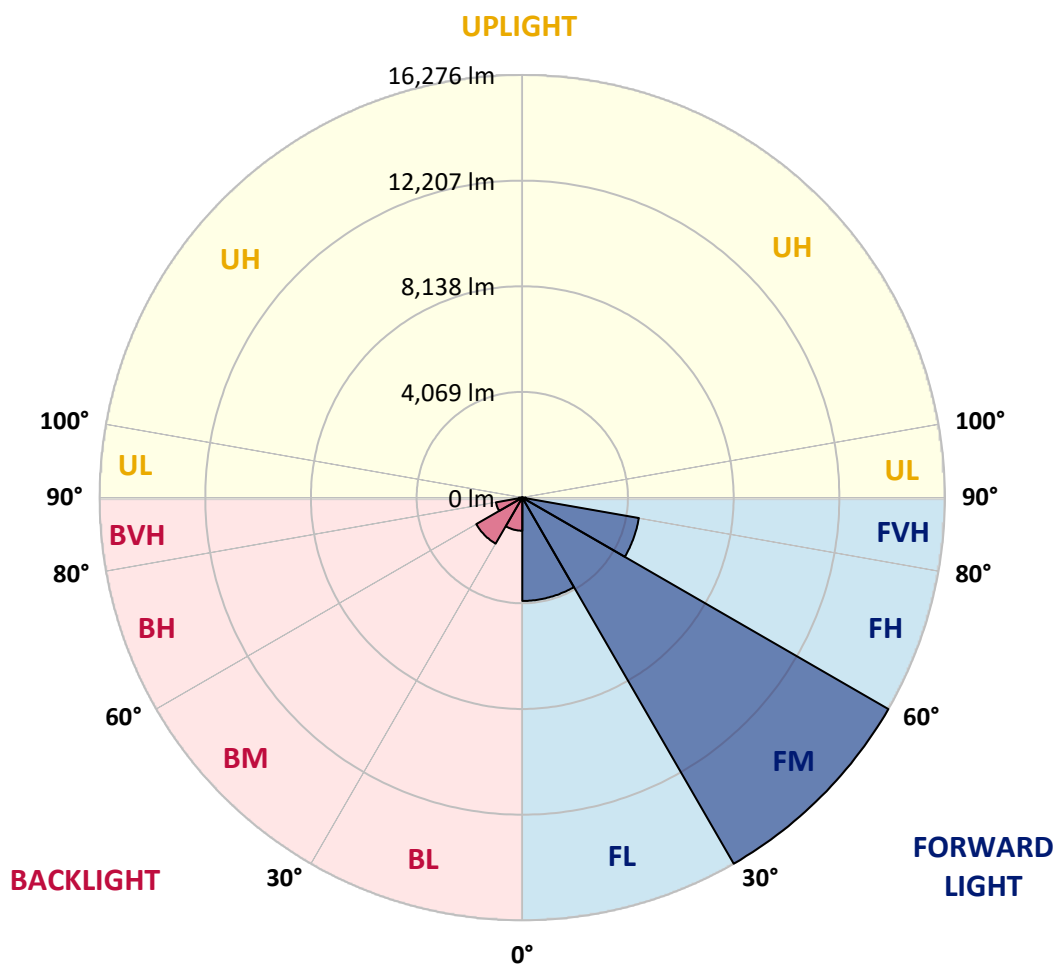
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3976.9	13.5			
FM	(30°-60°)	16276.4	55.3			
FH	(60°-80°)	4558.9	15.5			G2/5000
FVH	(80°-90°)	133.8	0.5			G2/225
BL	(0°-30°)	1274.8	4.3	B3/2500		
BM	(30°-60°)	2045.7	7.0	B2/2500		
BH	(60°-80°)	1029.4	3.5	B3/2500		G3/2500
BVH	(80°-90°)	124.1	0.4			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°	57°	65°	75°	85°
0°	6180.8	6180.8	6180.8	6180.8	6180.8	6180.8	6180.8	6180.8	6180.8	6180.8	6180.8
2.5°	7680.1	7596.4	7530.3	7472.4	7396.7	7192.2	6987.6	6984.4	6821.8	6570.5	6312.9
5°	8931.4	8818.7	8833.2	8652.8	8472.4	8176.1	7742.9	7720.4	7374.1	6903.9	6425.6
7.5°	9746.3	9747.9	9702.8	9599.7	9404.9	9068.3	8577.1	8466.0	7984.5	7271.1	6554.4
10°	9704.4	9747.9	9823.6	9912.2	9971.7	9805.9	9358.2	9222.9	8596.4	7715.5	6697.8
12.5°	9147.2	9214.8	9322.7	9545.0	9904.1	10177.9	10024.9	9915.4	9305.0	8158.4	6855.6
15°	8799.4	8839.6	8899.2	9049.0	9435.5	10090.9	10487.1	10429.1	9973.4	8659.2	7032.7
17.5°	8693.1	8733.3	8752.7	8844.4	9119.8	9791.4	10669.1	10772.1	10566.0	9119.8	7211.5
20°	8799.4	8818.7	8818.7	8873.4	9089.2	9615.8	10661.0	10868.7	11052.3	9672.2	7379.0
22.5°	9078.0	9086.0	9074.7	9094.1	9255.1	9664.2	10585.3	10843.0	11445.3	10140.8	7509.4
25°	9530.5	9543.4	9469.3	9424.2	9541.8	9876.7	10627.2	10863.9	11752.9	10588.5	7596.4
27.5°	10044.2	10060.3	9970.1	9865.5	9920.2	10139.2	10791.4	11004.0	11983.2	11029.8	7651.1
30°	10673.9	10680.3	10528.9	10403.3	10367.9	10530.6	11071.7	11269.7	12269.8	11550.0	7733.3
32.5°	11318.1	11366.4	11171.5	10994.4	10934.8	10984.7	11485.5	11677.2	12611.2	12108.8	7865.3
35°	12194.1	12202.2	11968.7	11752.9	11556.4	11620.8	12015.4	12153.9	13083.1	12754.6	8052.1
37.5°	13287.6	13361.7	13039.6	12637.0	12395.4	12302.0	12656.3	12807.7	13745.0	13546.9	8333.9
40°	14501.9	14529.2	14253.9	14002.6	13561.4	13290.8	13535.6	13699.9	14561.4	14492.2	8660.9
42.5°	15265.2	15324.8	15345.7	15320.0	14988.2	14534.1	14627.5	14704.8	15527.7	15379.5	8995.8
45°	15522.9	15611.4	15911.0	16545.5	16580.9	16133.2	15915.8	15989.9	16580.9	16274.9	9316.3
47.5°	15096.1	15247.5	15799.9	17101.1	18075.4	18109.2	17453.8	17291.1	17540.7	17017.3	9548.2
50°	13993.0	14025.2	14870.7	16754.8	18775.9	19998.2	19320.3	19017.5	18452.2	17566.5	9707.6
52.5°	12285.9	12323.0	13031.5	15146.0	18344.3	21318.8	21504.0	20962.9	19378.2	17993.3	9812.3
55°	9119.8	9334.0	10113.5	12157.1	16299.1	21194.8	23240.0	22932.4	20497.5	18331.5	9976.6
57.5°	5607.5	5411.0	6335.4	8271.1	12258.5	19491.0	23776.3	23876.1	21729.4	18614.9	10252.0
60°	2579.9	2618.5	3000.2	4266.0	7472.4	15247.5	22394.5	23025.8	22410.7	18605.2	10321.2
62.5°	1777.9	1742.5	1645.9	1872.9	3407.7	9643.2	18916.0	19985.4	21045.0	18027.1	10045.8
65°	1589.5	1554.1	1367.2	1304.4	1565.3	4203.2	13751.4	15100.9	17719.5	16568.0	9359.8
67.5°	1484.8	1436.5	1243.2	1120.9	1117.6	1673.2	8108.5	9733.4	13142.7	14007.5	8110.1
70°	1375.3	1336.7	1145.0	1009.7	951.8	1051.6	3563.9	4665.4	8533.6	10094.1	6317.7
72.5°	1265.8	1220.7	1048.4	903.4	827.8	787.5	1365.6	1776.3	4821.6	6052.0	3873.1
75°	1106.4	1083.8	937.3	818.1	736.0	636.1	866.4	988.8	2306.1	2779.6	1943.8
77.5°	967.9	943.7	832.6	715.0	655.4	516.9	615.2	671.5	972.7	1127.3	877.7
80°	708.6	732.7	702.1	631.3	584.6	405.8	413.9	460.6	578.1	639.3	536.3
82.5°	449.3	494.4	541.1	486.3	442.9	320.5	286.7	304.4	394.6	418.7	238.3
85°	188.4	191.6	314.0	296.3	252.8	190.0	172.3	182.0	211.0	220.6	111.1
87.5°	72.5	70.9	111.1	103.1	78.9	54.8	54.8	61.2	83.7	77.3	35.4
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°	6180.8	6180.8	6180.8	6180.8	6180.8	6180.8	6180.8	6180.8	6180.8	6180.8	6180.8
2.5°	6201.7	6087.4	5860.3	5578.5	5372.4	5140.5	4935.9	4789.4	4734.6	4708.9	4660.6
5°	6196.9	5971.5	5501.2	5008.4	4612.3	4206.4	3863.4	3641.2	3621.8	3473.7	3459.2
7.5°	6198.5	5853.9	5105.0	4380.4	3776.4	3361.0	3077.5	3003.4	2914.9	2892.3	2903.6
10°	6203.4	5704.1	4679.9	3758.7	3174.1	2902.0	2795.7	2766.7	2769.9	2779.6	2781.2
12.5°	6209.8	5559.2	4238.6	3286.9	2836.0	2723.2	2712.0	2737.7	2765.1	2786.0	2790.9
15°	6217.8	5393.3	3808.7	2906.8	2666.9	2657.2	2694.2	2737.7	2776.4	2807.0	2811.8
17.5°	6208.2	5200.1	3447.9	2673.3	2573.5	2620.2	2681.4	2736.1	2771.5	2800.5	2803.7
20°	6185.6	4984.3	3100.1	2509.0	2515.5	2591.2	2657.2	2708.7	2747.4	2761.9	2773.1
22.5°	6098.7	4726.6	2797.3	2381.8	2446.2	2550.9	2629.8	2660.4	2616.9	2586.3	2594.4
25°	5950.5	4391.6	2515.5	2278.7	2383.4	2494.5	2575.1	2501.0	2465.6	2452.7	2459.1
27.5°	5765.3	4024.4	2302.9	2170.9	2302.9	2431.7	2409.2	2396.3	2380.2	2359.3	2364.1
30°	5565.6	3665.3	2122.5	2087.1	2215.9	2290.0	2299.7	2320.6	2302.9	2270.7	2283.6
32.5°	5380.4	3327.1	1985.7	2016.3	2154.7	2143.5	2215.9	2240.1	2158.0	2050.1	2054.9
35°	5222.6	3013.1	1882.6	1947.0	2050.1	2054.9	2127.4	2043.6	1955.1	1903.5	1906.7
37.5°	5103.4	2768.3	1814.9	1887.4	1916.4	1977.6	1938.9	1895.5	1884.2	1848.8	1850.4
40°	5032.6	2554.1	1771.5	1840.7	1835.9	1877.8	1753.8	1797.2	1813.3	1802.1	1803.7
42.5°	4961.7	2402.8	1726.4	1776.3	1774.7	1692.6	1665.2	1702.2	1744.1	1748.9	1745.7
45°	4905.3	2285.2	1679.7	1678.1	1710.3	1581.4	1573.4	1595.9	1655.5	1684.5	1682.9
47.5°	4842.5	2187.0	1608.8	1563.7	1573.4	1512.2	1499.3	1509.0	1581.4	1628.1	1641.0
50°	4763.6	2088.7	1520.2	1459.0	1418.8	1447.8	1451.0	1452.6	1525.1	1578.2	1589.5
52.5°	4700.8	2014.6	1418.8	1373.7	1325.4	1389.8	1414.0	1417.2	1460.7	1504.1	1512.2
55°	4737.9	1972.8	1318.9	1286.7	1243.2	1330.2	1376.9	1383.4	1393.0	1425.2	1430.1
57.5°	4849.0	1982.4	1238.4	1196.5	1164.3	1259.4	1338.3	1343.1	1336.7	1375.3	1381.7
60°	4882.8	1977.6	1178.8	1096.7	1077.4	1183.7	1281.9	1291.6	1289.9	1346.3	1357.6
62.5°	4741.1	1916.4	1119.2	1013.0	1000.1	1106.4	1203.0	1241.6	1249.7	1330.2	1344.7
65°	4407.7	1790.8	1040.3	924.4	924.4	1024.2	1127.3	1180.4	1203.0	1310.9	1327.0
67.5°	3968.1	1642.6	959.8	848.7	845.5	945.3	1046.8	1101.5	1137.0	1283.5	1293.2
70°	3293.3	1442.9	860.0	766.6	766.6	856.7	948.5	1014.6	1066.1	1232.0	1232.0
72.5°	2256.2	1199.8	739.2	673.2	674.8	758.5	851.9	926.0	987.2	1128.9	1132.1
75°	1426.8	937.3	607.1	573.3	579.8	658.7	755.3	832.6	955.0	1116.0	1120.9
77.5°	758.5	658.7	483.1	475.1	483.1	555.6	663.5	769.8	958.2	967.9	951.8
80°	491.2	467.0	381.7	365.6	368.8	447.7	591.0	731.1	769.8	779.4	744.0
82.5°	267.3	296.3	270.6	254.4	254.4	349.5	504.1	581.4	552.4	459.0	438.0
85°	114.3	138.5	140.1	122.4	117.6	215.8	338.2	317.3	294.7	281.8	278.6
87.5°	32.2	45.1	45.1	33.8	25.8	59.6	67.6	19.3	0.0	1.6	3.2
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)