

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: P530192

Luminaire Tested: **GALN-SA5B-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-827-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18408 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

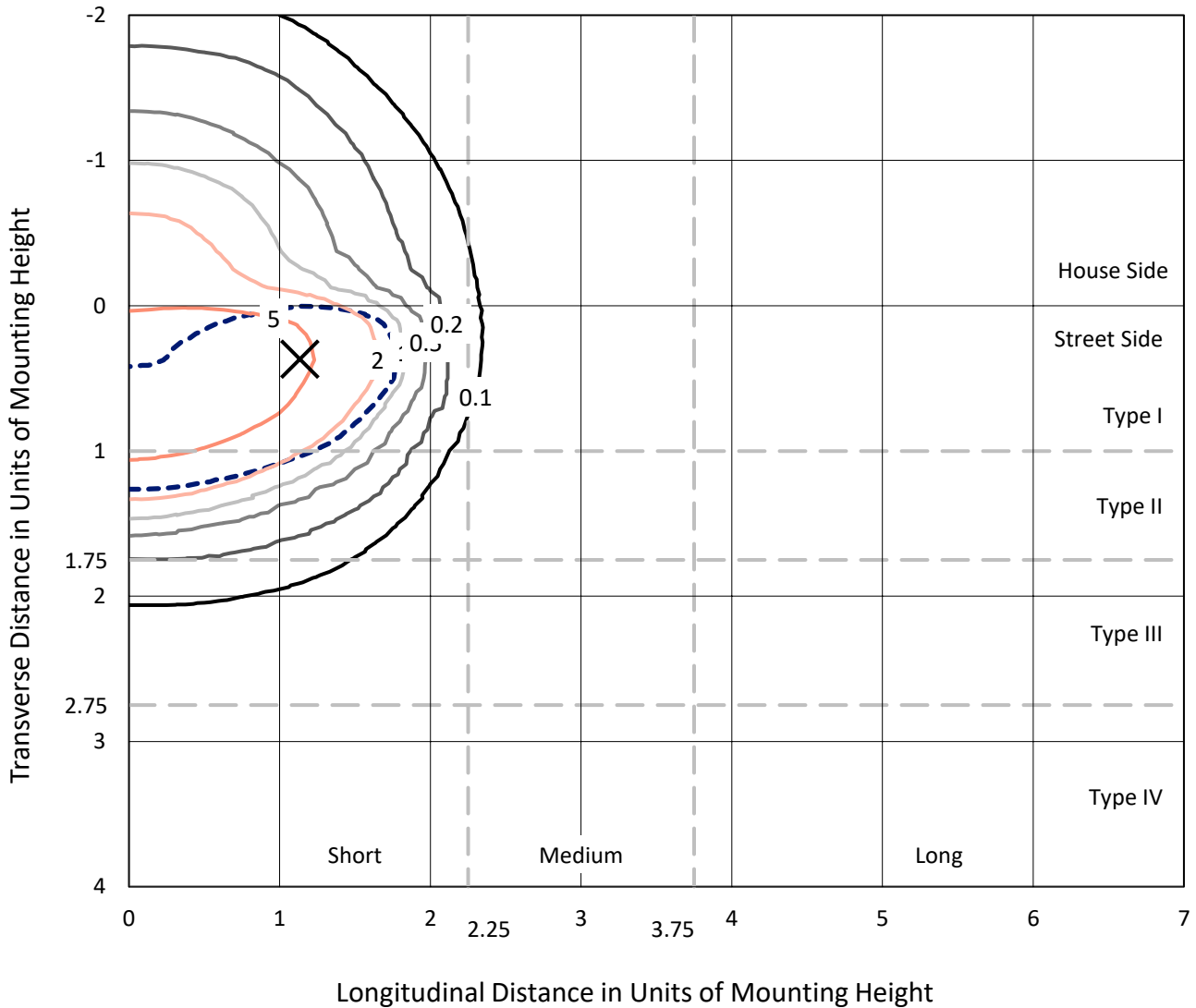
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

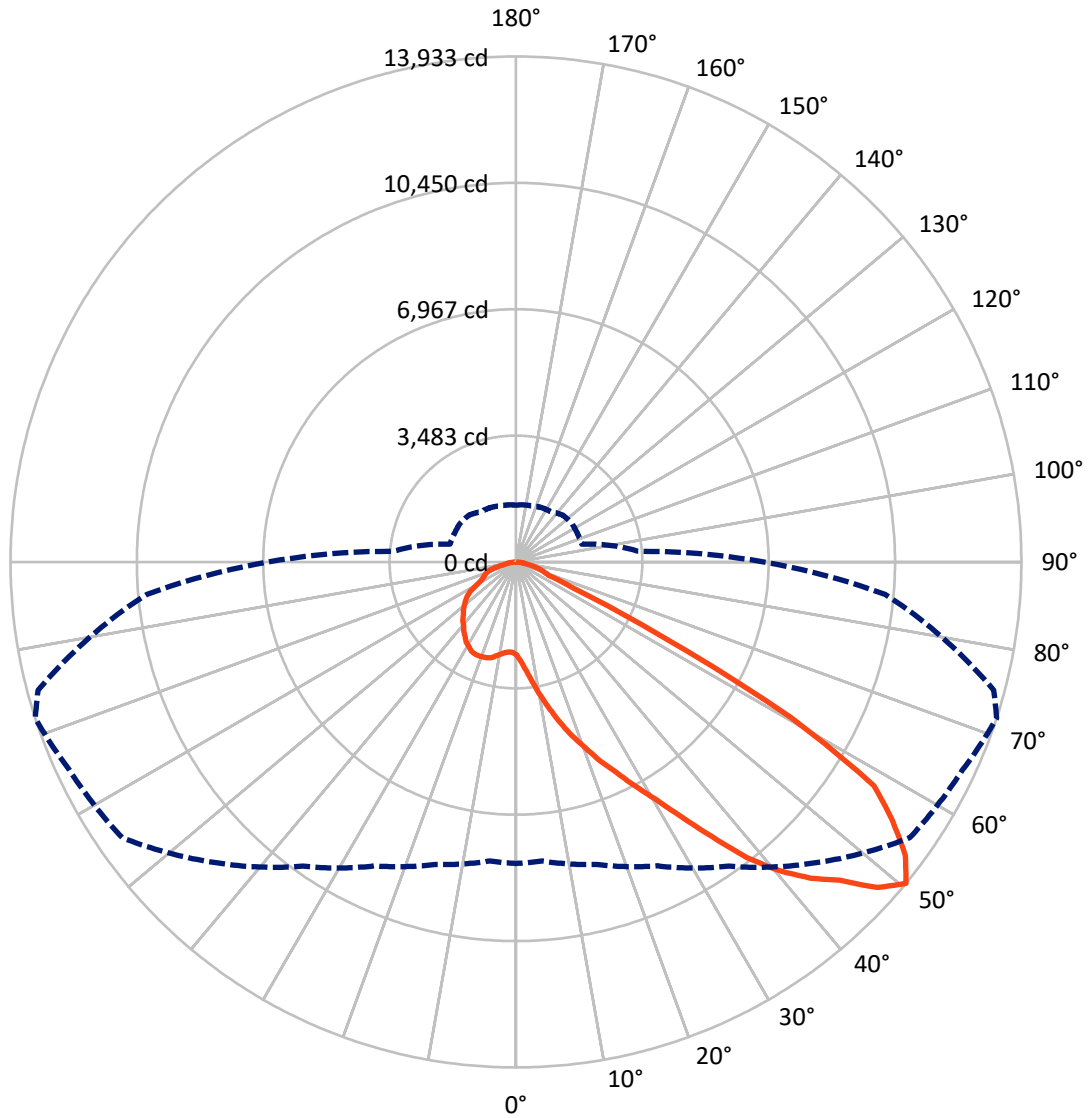
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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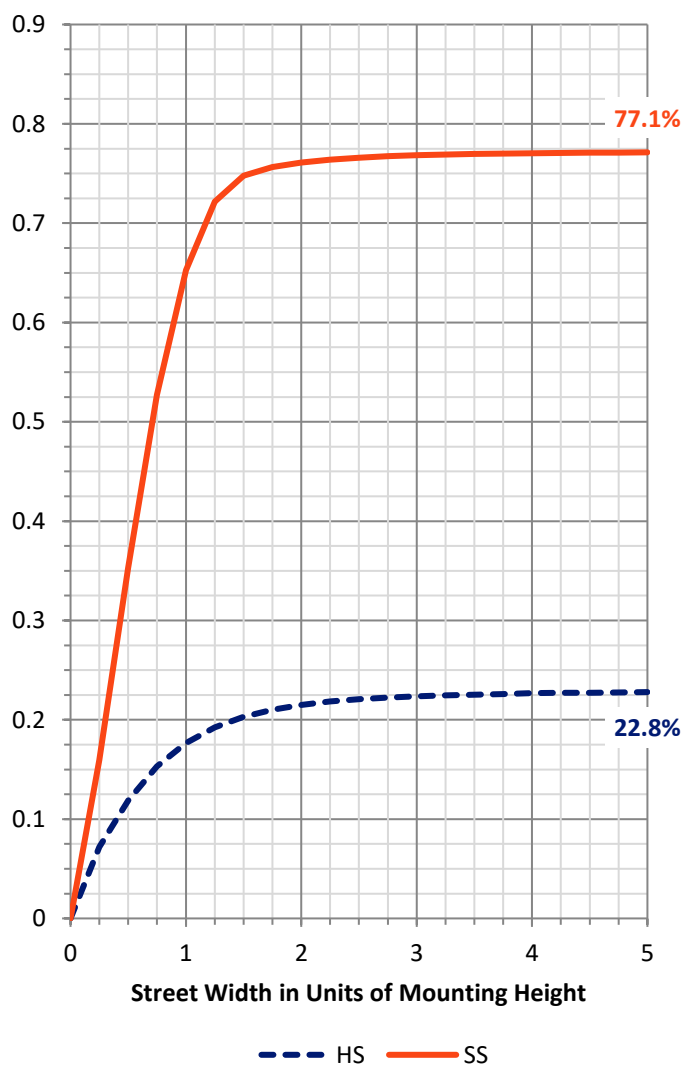
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4217.4	0.0	4217.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	14190.6	0.0	14190.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	18408.0	0.0	18408.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.4	1.6
10°-20°	1126.8	6.1
20°-30°	2184.8	11.9
30°-40°	3619.5	19.7
40°-50°	5064.4	27.5
50°-60°	4272.5	23.2
60°-70°	1302.3	7.1
70°-80°	456.9	2.5
80°-90°	79.4	0.4
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°	18408.0	100.0
0°-180°	18408.0	100.0

Coefficient of Utilization

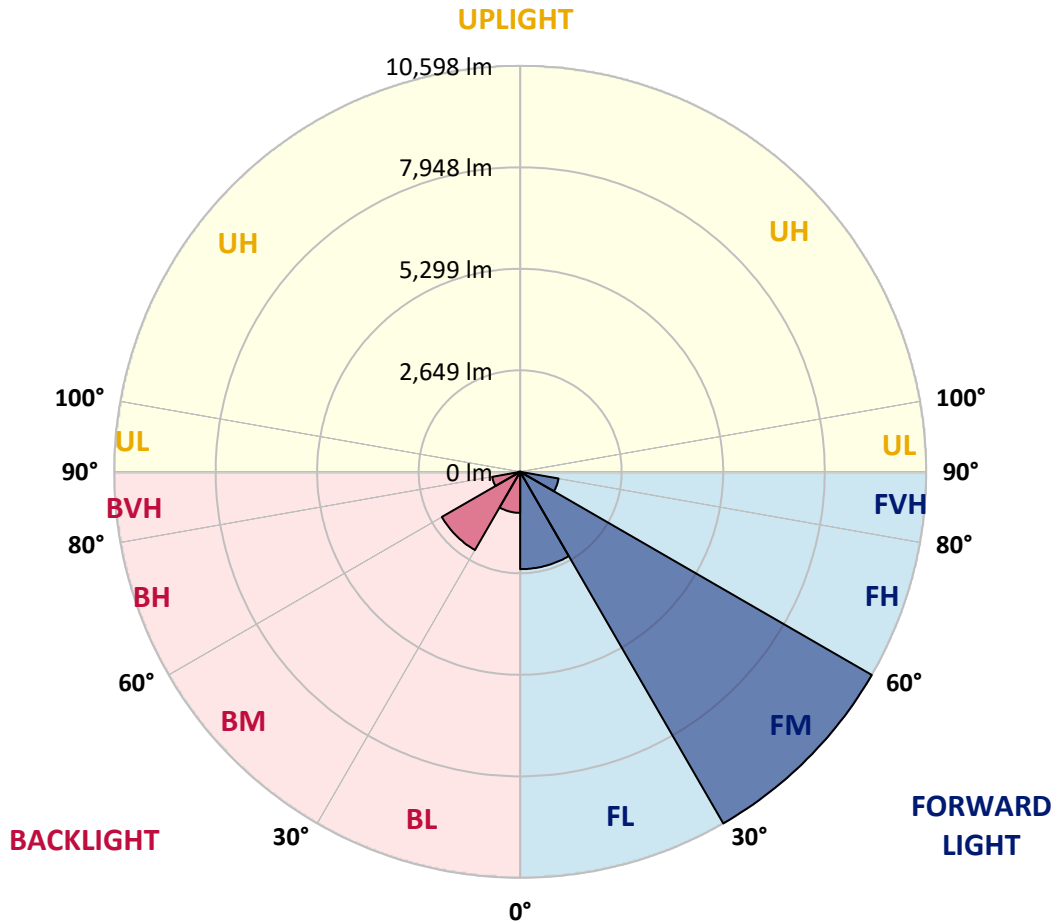


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2541.0	13.8			
FM (30°-60°)	10598.0	57.6			
FH (60°-80°)	1016.1	5.5			G1/1800
FVH (80°-90°)	35.6	0.2			G1/100
BL (0°-30°)	1072.1	5.8	B3/2500		
BM (30°-60°)	2358.4	12.8	B2/2500		
BH (60°-80°)	743.0	4.0	B2/1000		G2/1000
BVH (80°-90°)	43.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6
2.5°	3296.0	3275.5	3214.0	3193.5	3120.6	2988.5	2942.9	2808.6	2751.6	2699.2	2637.7
5°	4168.4	4072.7	4065.9	3949.7	3781.2	3683.2	3391.7	3195.8	3015.8	2924.7	2756.2
7.5°	4724.2	4726.5	4726.5	4630.8	4496.4	4248.1	3986.2	3633.1	3362.1	3227.7	2940.7
10°	5252.7	5207.1	5182.0	5172.9	5081.8	4840.4	4560.2	4122.9	3751.6	3594.4	3079.6
12.5°	5626.2	5587.5	5644.4	5614.8	5548.8	5391.6	5127.4	4628.5	4163.9	3952.0	3302.8
15°	5803.9	5831.2	5876.8	5958.8	5929.2	5869.9	5578.4	5147.9	4608.0	4368.9	3501.0
17.5°	6077.2	6002.1	6056.7	6159.2	6241.2	6213.9	6047.6	5523.7	5047.7	4753.8	3767.5
20°	6268.6	6225.3	6252.6	6371.1	6432.6	6587.5	6500.9	6015.7	5469.1	5159.3	4081.9
22.5°	6815.2	6751.5	6662.6	6680.9	6703.6	6813.0	6833.5	6555.6	5958.8	5630.8	4380.3
25°	7489.5	7430.3	7325.5	7218.4	7152.4	7131.9	7202.5	6979.2	6428.0	6088.6	4701.4
27.5°	8232.1	8131.8	8065.8	7844.8	7667.2	7639.8	7605.7	7484.9	6983.8	6617.1	5063.6
30°	8954.1	8874.4	8785.6	8432.5	8248.0	8218.4	8049.8	8084.0	7587.4	7179.7	5473.6
32.5°	9500.8	9507.6	9304.9	9038.4	8865.3	8708.1	8646.6	8744.6	8361.9	8033.9	5931.5
35°	9942.7	9963.2	9769.6	9528.1	9341.4	9450.7	9423.4	9468.9	9286.7	8885.8	6464.5
37.5°	10373.2	10270.7	10063.4	9947.3	9849.3	10029.3	10261.6	10300.3	10334.5	9863.0	7084.0
40°	10443.8	10452.9	10332.2	10414.2	10291.2	10562.3	11102.1	11052.0	11190.9	10778.7	7756.0
42.5°	10343.6	10364.1	10411.9	10528.1	10824.2	11149.9	11951.7	11746.7	11915.3	11548.6	8409.7
45°	10179.6	10095.3	10154.5	10596.4	11108.9	11833.3	12728.5	12569.0	12514.4	12206.9	9188.7
47.5°	9396.0	9482.6	9667.1	10211.5	10981.4	11951.7	13279.7	13243.3	13407.3	13190.9	9897.1
50°	8309.5	8275.3	8630.7	9243.4	10236.5	11719.4	13250.1	13580.4	13933.4	13632.8	10213.8
52.5°	6223.0	6405.2	6710.5	7471.3	8888.1	10452.9	12603.2	13154.4	13441.4	13377.7	9958.6
55°	3933.8	3988.5	4173.0	5077.3	6352.8	8389.2	10803.7	12081.6	12594.1	12833.3	9724.0
57.5°	1911.1	1808.6	2034.1	2760.7	3669.6	5642.2	8332.3	10523.5	11637.4	12070.2	9213.8
60°	997.7	1036.4	1125.2	1384.9	1897.4	2929.3	5193.4	7013.4	8714.9	9380.1	6983.8
62.5°	826.8	840.5	899.7	1029.6	1261.9	1685.6	2651.4	3419.0	4444.0	5043.1	3972.5
65°	701.6	708.4	772.2	858.7	1006.8	1186.7	1364.4	1428.2	1728.9	1774.4	1412.3
67.5°	585.4	592.2	660.6	742.6	838.2	886.1	931.6	927.1	961.2	947.6	945.3
70°	451.0	457.8	528.5	615.0	662.8	635.5	776.7	808.6	822.3	833.7	851.9
72.5°	325.7	339.4	394.1	455.6	430.5	494.3	640.1	687.9	706.1	713.0	735.7
75°	236.9	241.4	255.1	236.9	273.3	344.0	451.0	510.2	533.0	539.8	574.0
77.5°	104.8	107.1	109.3	136.7	175.4	214.1	268.8	316.6	348.5	357.6	366.7
80°	54.7	56.9	70.6	93.4	125.3	157.2	195.9	223.2	243.7	246.0	255.1
82.5°	34.2	36.4	50.1	66.1	88.8	116.2	143.5	166.3	182.2	184.5	186.8
85°	15.9	20.5	29.6	41.0	59.2	75.2	77.4	66.1	70.6	72.9	68.3
87.5°	4.6	6.8	9.1	6.8	9.1	9.1	11.4	13.7	13.7	13.7	15.9
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°	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6
2.5°	2603.6	2583.1	2503.3	2473.7	2396.3	2409.9	2368.9	2366.7	2357.5	2355.3	2353.0
5°	2667.3	2603.6	2507.9	2435.0	2391.7	2387.2	2357.5	2357.5	2366.7	2373.5	2357.5
7.5°	2772.1	2699.2	2537.5	2469.2	2430.4	2423.6	2403.1	2387.2	2407.7	2400.8	2382.6
10°	2892.8	2765.3	2594.4	2535.2	2471.4	2455.5	2455.5	2462.3	2428.2	2439.5	2421.3
12.5°	3027.2	2856.4	2667.3	2599.0	2523.8	2514.7	2510.2	2460.0	2478.3	2469.2	2423.6
15°	3198.1	2961.2	2760.7	2644.6	2580.8	2539.8	2480.5	2471.4	2460.0	2437.3	2416.8
17.5°	3382.6	3075.1	2804.0	2658.2	2562.6	2532.9	2487.4	2439.5	2405.4	2409.9	2394.0
20°	3539.7	3179.8	2819.9	2671.9	2548.9	2491.9	2421.3	2391.7	2355.3	2353.0	2350.7
22.5°	3726.5	3321.1	2842.7	2635.4	2507.9	2448.7	2400.8	2348.4	2323.4	2291.5	2307.4
25°	3949.7	3375.7	2847.3	2614.9	2478.3	2373.5	2348.4	2291.5	2282.4	2236.8	2245.9
27.5°	4111.5	3405.3	2810.8	2551.2	2409.9	2330.2	2284.7	2243.7	2227.7	2193.5	2184.4
30°	4327.9	3450.9	2733.4	2471.4	2341.6	2252.8	2225.4	2216.3	2170.8	2134.3	2129.8
32.5°	4573.9	3480.5	2683.3	2389.4	2271.0	2202.7	2216.3	2173.0	2116.1	2084.2	2075.1
35°	4769.8	3491.9	2558.0	2296.0	2223.2	2179.9	2163.9	2154.8	2072.8	2043.2	2020.4
37.5°	5068.2	3466.8	2453.2	2230.0	2170.8	2154.8	2141.2	2079.7	1986.3	1943.0	1911.1
40°	5416.7	3460.0	2318.8	2136.6	2120.7	2138.9	2097.9	2002.2	1872.4	1824.5	1801.8
42.5°	5751.5	3507.8	2234.5	2086.5	2066.0	2072.8	2015.9	1872.4	1808.6	1781.3	1744.8
45°	6311.8	3608.1	2095.6	2009.0	1999.9	1995.4	1927.0	1776.7	1740.3	1706.1	1699.3
47.5°	6817.5	3542.0	2006.8	1929.3	1938.4	1913.4	1767.6	1719.8	1678.8	1644.6	1633.2
50°	6847.1	3384.8	1881.5	1867.8	1870.1	1826.8	1687.9	1656.0	1603.6	1580.8	1564.9
52.5°	6692.2	3127.5	1765.3	1769.9	1776.7	1706.1	1589.9	1567.1	1523.9	1492.0	1482.9
55°	6257.2	2726.6	1651.4	1669.6	1687.9	1553.5	1517.0	1460.1	1425.9	1380.4	1382.6
57.5°	5512.3	2195.8	1492.0	1521.6	1560.3	1412.3	1384.9	1314.3	1264.2	1227.7	1223.2
60°	3694.6	1562.6	1252.8	1264.2	1350.7	1291.5	1289.2	1218.6	1150.3	1118.4	1100.2
62.5°	2179.9	1193.6	1082.0	1070.6	1068.3	1102.5	1159.4	1134.4	1045.5	984.0	1002.2
65°	1141.2	1031.9	1006.8	968.1	945.3	936.2	979.5	990.9	931.6	865.6	861.0
67.5°	959.0	959.0	938.5	924.8	892.9	854.2	826.8	790.4	781.3	763.1	740.3
70°	872.4	895.2	888.4	856.5	829.1	785.8	715.2	656.0	599.1	578.6	592.2
72.5°	760.8	783.6	783.6	767.6	731.2	665.1	596.8	528.5	480.6	444.2	439.6
75°	585.4	596.8	624.1	605.9	558.1	517.1	446.5	375.8	330.3	296.1	289.3
77.5°	373.6	391.8	391.8	389.5	355.3	316.6	271.1	220.9	186.8	161.7	154.9
80°	248.3	259.7	268.8	259.7	236.9	207.3	173.1	138.9	113.9	93.4	88.8
82.5°	182.2	195.9	202.7	193.6	170.8	148.1	123.0	97.9	72.9	56.9	52.4
85°	70.6	72.9	82.0	97.9	95.7	93.4	75.2	54.7	41.0	29.6	27.3
87.5°	18.2	15.9	18.2	18.2	15.9	13.7	13.7	13.7	13.7	6.8	9.1
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)