

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: P533545

Luminaire Tested: **GALN-SA9A-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-727-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22931 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

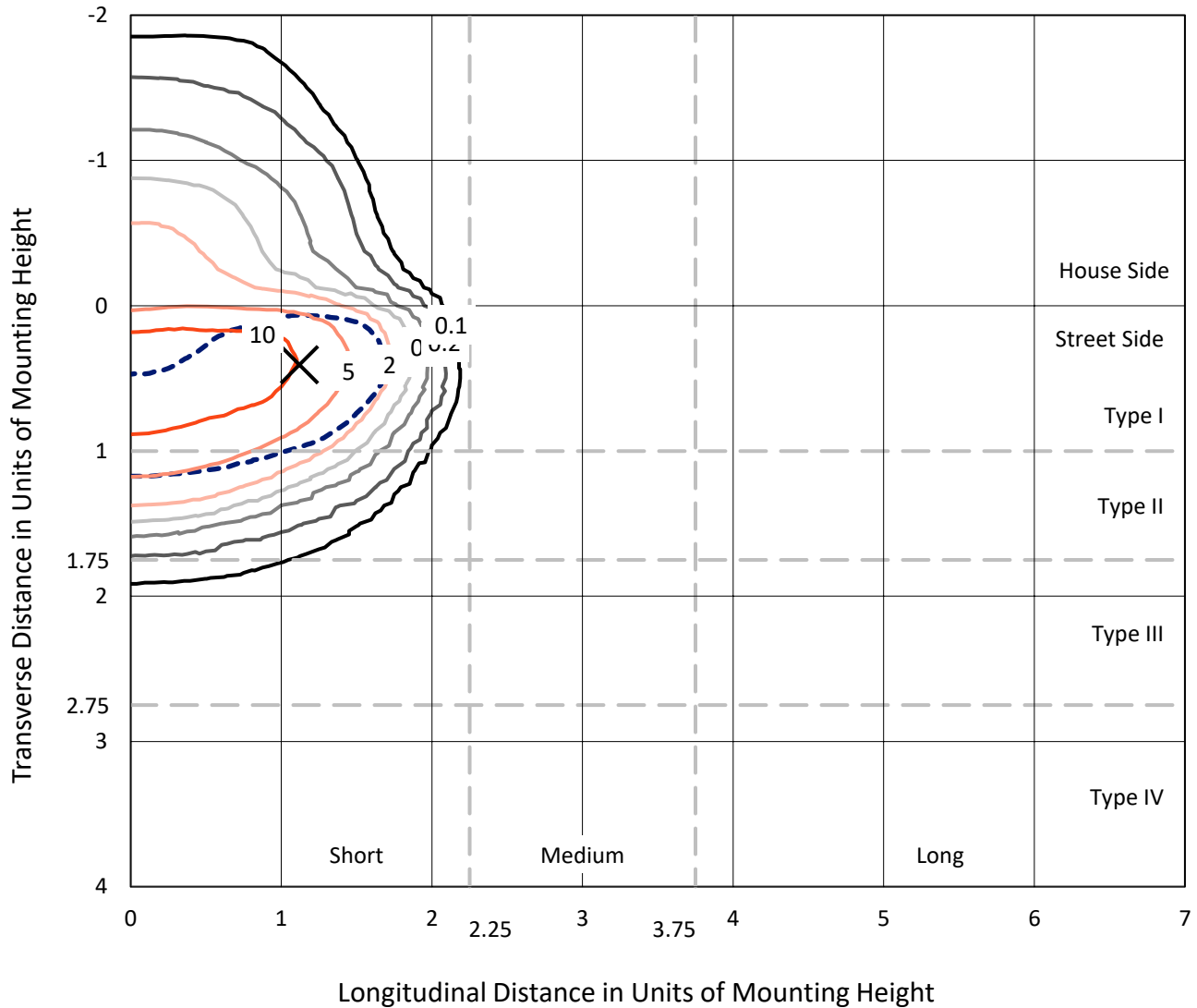
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

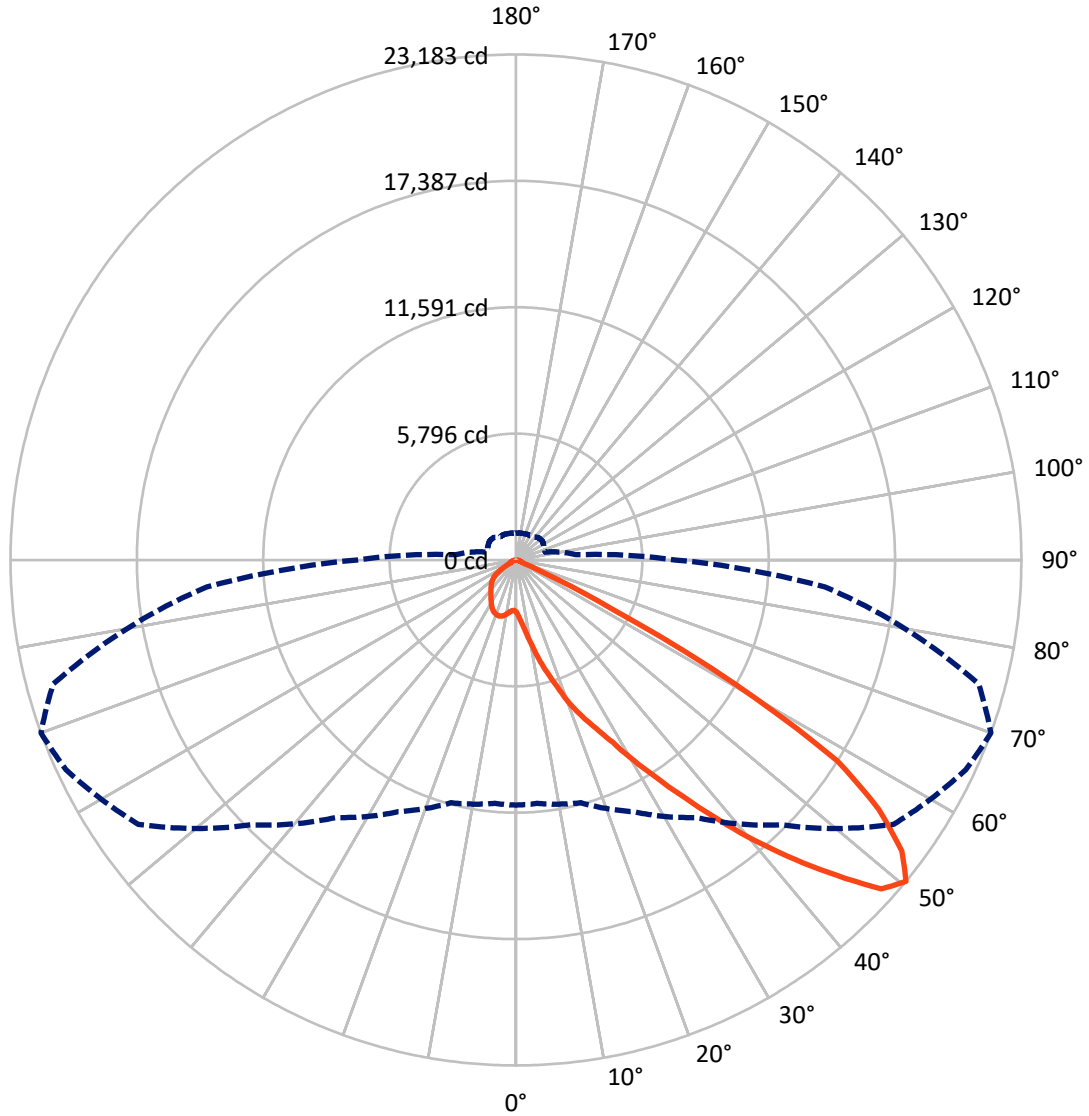
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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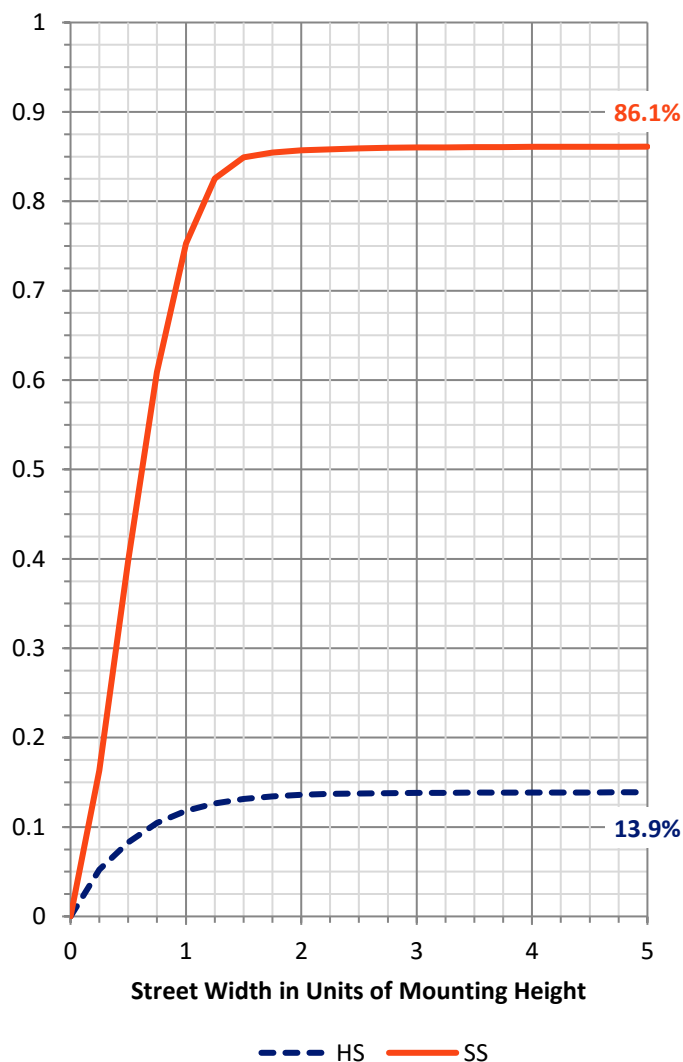
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3202.5	0.0	3202.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	19728.5	0.0	19728.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	22931.0	0.0	22931.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.9	1.3
10°-20°	1336.0	5.8
20°-30°	2802.8	12.2
30°-40°	4831.0	21.1
40°-50°	7060.5	30.8
50°-60°	5499.0	24.0
60°-70°	931.7	4.1
70°-80°	128.0	0.6
80°-90°	33.2	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°	22931.0	100.0
0°-180°	22931.0	100.0

Coefficient of Utilization



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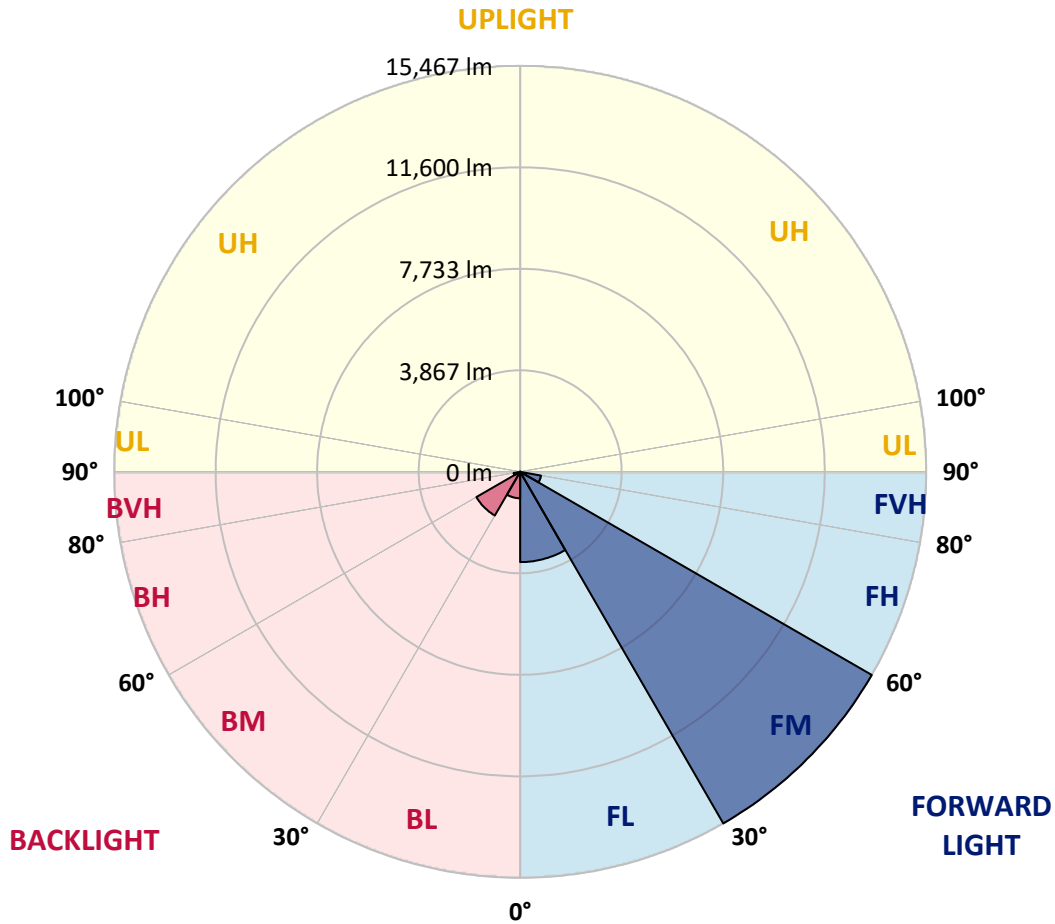
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3439.9	15.0			
FM (30°-60°)	15466.6	67.4			
FH (60°-80°)	806.7	3.5			G1/1800
FVH (80°-90°)	15.3	0.1			G1/100
BL (0°-30°)	1007.7	4.4	B3/2500		
BM (30°-60°)	1923.9	8.4	B2/2500		
BH (60°-80°)	253.0	1.1	B1/500		G1/500
BVH (80°-90°)	17.8	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2375.2	2375.2	2375.2	2375.2	2375.2	2375.2	2375.2	2375.2	2375.2	2375.2	2375.2
2.5°	3110.4	3087.8	3038.7	2948.3	2910.6	2820.1	2767.3	2665.5	2601.4	2529.8	2450.6
5°	4380.9	4264.0	4192.4	4090.6	3792.8	3608.0	3302.7	3042.5	2921.9	2789.9	2608.9
7.5°	5692.9	5617.5	5519.5	5300.8	5097.3	4712.7	4188.6	3615.6	3370.5	3144.3	2786.1
10°	6778.7	6567.6	6556.3	6394.2	6171.7	5711.8	5082.2	4369.6	3932.3	3600.5	3038.7
12.5°	7536.5	7344.3	7431.0	7412.1	7204.8	6782.5	6054.9	5112.3	4656.1	4139.6	3298.9
15°	8226.5	8147.3	8120.9	8098.3	8015.4	7702.4	7050.2	6017.2	5357.4	4735.3	3593.0
17.5°	8901.3	8697.8	8795.8	8814.6	8807.1	8524.3	7913.6	6876.8	6100.1	5364.9	3902.1
20°	9500.8	9519.7	9387.7	9361.3	9338.7	9327.4	8731.7	7728.8	7012.5	6024.7	4305.5
22.5°	10269.9	10138.0	10254.8	10179.4	10032.4	9941.9	9485.7	8482.9	7804.2	6820.2	4716.5
25°	11178.5	11284.1	11008.9	10978.7	10816.6	10503.7	10092.7	9327.4	8565.8	7559.2	5161.3
27.5°	12298.3	12113.5	12041.9	11876.0	11581.9	11450.0	10967.4	10198.3	9485.7	8335.8	5591.1
30°	13259.6	13210.6	12852.5	12656.4	12400.1	12396.3	11721.4	11378.3	10684.6	9553.6	6183.1
32.5°	14043.8	13828.9	13697.0	13561.3	13353.9	13410.5	12841.2	12660.2	11962.7	10684.6	6880.5
35°	14567.9	14413.3	14334.1	14126.8	14066.5	14319.1	14081.5	14006.1	13433.1	12275.6	7698.7
37.5°	14733.8	14782.8	14767.7	14507.6	14635.8	15318.2	15623.5	15427.5	15125.9	13953.4	8584.7
40°	14880.8	14914.7	14839.3	15144.7	15510.4	16287.1	17391.7	17067.5	16954.4	15653.7	9817.5
42.5°	14963.8	14937.4	14937.4	15465.2	16019.4	17580.3	19099.6	18884.7	18798.0	17463.4	11242.6
45°	14605.6	14349.2	14624.4	15340.8	16456.7	18217.4	20464.4	20762.3	20637.8	19616.1	12909.0
47.5°	13267.2	13425.5	13580.1	14537.7	15925.2	18021.4	21301.4	22315.6	22545.5	21425.8	14002.4
50°	11242.6	11208.7	11529.1	12735.6	14420.9	17176.8	21139.3	22764.2	23182.7	21968.7	14232.3
52.5°	8177.5	8426.3	8773.2	9972.1	11970.3	14990.2	19046.8	21606.8	22164.8	21301.4	14081.5
55°	4761.7	4486.5	5266.9	6281.1	8166.2	11306.7	16102.3	19152.4	20185.4	20087.4	13320.0
57.5°	1907.7	1847.4	2115.1	2850.2	4260.3	7008.7	11710.1	15736.6	17391.7	18398.4	11706.3
60°	837.0	818.1	961.4	1161.2	1741.8	3231.0	6405.5	9787.3	11514.1	12856.2	8056.8
62.5°	603.2	595.7	667.3	739.0	919.9	1406.3	2691.9	3943.6	4916.3	5938.0	3608.0
65°	486.4	505.2	554.2	591.9	678.6	780.4	950.1	1097.1	1345.9	1395.0	795.5
67.5°	395.9	410.9	456.2	497.7	512.7	422.3	437.3	384.6	384.6	343.1	275.2
70°	290.3	294.1	346.9	395.9	316.7	169.7	297.8	297.8	267.7	256.4	233.7
72.5°	214.9	218.7	260.1	245.1	124.4	105.6	218.7	241.3	218.7	207.4	188.5
75°	158.3	162.1	135.7	56.6	52.8	67.9	128.2	165.9	158.3	154.6	143.3
77.5°	30.2	22.6	18.9	26.4	37.7	56.6	82.9	101.8	105.6	113.1	105.6
80°	3.8	3.8	11.3	22.6	41.5	60.3	86.7	98.0	101.8	105.6	98.0
82.5°	0.0	3.8	11.3	22.6	41.5	56.6	75.4	86.7	94.3	98.0	94.3
85°	0.0	3.8	7.5	18.9	33.9	41.5	37.7	26.4	22.6	26.4	18.9
87.5°	0.0	0.0	3.8	3.8	7.5	7.5	7.5	7.5	7.5	7.5	7.5
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°	2375.2	2375.2	2375.2	2375.2	2375.2	2375.2	2375.2	2375.2	2375.2	2375.2	2375.2
2.5°	2405.4	2390.3	2337.5	2280.9	2231.9	2254.6	2231.9	2213.1	2220.6	2213.1	2205.5
5°	2537.3	2469.5	2356.3	2307.3	2265.9	2262.1	2250.8	2247.0	2250.8	2250.8	2216.9
7.5°	2661.7	2552.4	2431.8	2379.0	2330.0	2333.7	2307.3	2307.3	2303.6	2284.7	2277.2
10°	2850.2	2703.2	2548.6	2454.4	2394.1	2382.7	2356.3	2330.0	2330.0	2330.0	2292.3
12.5°	3057.6	2872.9	2661.7	2552.4	2480.8	2424.2	2382.7	2375.2	2333.7	2326.2	2307.3
15°	3238.6	3004.8	2737.1	2586.3	2495.8	2420.4	2356.3	2314.9	2296.0	2284.7	2269.6
17.5°	3415.8	3117.9	2778.6	2586.3	2488.3	2401.6	2333.7	2296.0	2250.8	2258.3	2228.2
20°	3653.3	3238.6	2789.9	2537.3	2416.7	2333.7	2243.2	2224.4	2198.0	2175.4	2182.9
22.5°	3883.3	3325.3	2756.0	2477.0	2303.6	2205.5	2160.3	2137.7	2126.4	2107.5	2081.1
25°	4090.6	3419.5	2703.2	2367.7	2182.9	2111.3	2069.8	2066.0	2039.7	2039.7	1990.6
27.5°	4301.8	3453.5	2612.7	2239.5	2077.4	2035.9	2017.0	2009.5	1998.2	1971.8	1937.9
30°	4543.0	3464.8	2480.8	2107.5	1983.1	1937.9	1964.3	1983.1	1934.1	1885.1	1900.2
32.5°	4742.9	3438.4	2322.4	1983.1	1915.2	1892.6	1945.4	1964.3	1907.7	1854.9	1828.5
35°	4984.1	3374.3	2167.8	1885.1	1847.4	1892.6	1937.9	1937.9	1824.8	1760.7	1745.6
37.5°	5349.9	3302.7	2024.6	1802.1	1775.7	1870.0	1930.3	1888.8	1711.7	1632.5	1613.6
40°	5742.0	3257.4	1885.1	1719.2	1738.0	1832.3	1866.2	1738.0	1557.1	1508.1	1493.0
42.5°	6311.2	3166.9	1760.7	1647.6	1704.1	1779.5	1779.5	1549.5	1481.7	1455.3	1451.5
45°	7020.0	3102.8	1651.3	1587.2	1655.1	1674.0	1613.6	1451.5	1402.5	1395.0	1398.7
47.5°	7366.9	2978.4	1538.2	1515.6	1564.6	1568.4	1410.0	1372.3	1330.9	1319.6	1312.0
50°	7314.1	2756.0	1391.2	1421.3	1489.2	1451.5	1285.6	1293.2	1255.5	1251.7	1232.8
52.5°	6944.6	2405.4	1244.2	1315.8	1391.2	1281.9	1183.8	1176.3	1176.3	1127.3	1108.4
55°	6156.7	1937.9	1067.0	1157.4	1247.9	1078.3	1051.9	1044.3	1025.5	980.2	968.9
57.5°	4874.8	1421.3	803.0	901.1	1059.4	916.1	912.4	878.4	829.4	795.5	795.5
60°	2899.3	818.1	505.2	550.4	701.2	742.7	825.7	810.6	727.6	674.9	659.8
62.5°	1323.3	422.3	320.5	328.0	377.0	482.6	648.5	750.3	633.4	542.9	535.4
65°	444.9	312.9	263.9	252.6	260.1	290.3	388.3	531.6	505.2	418.5	403.4
67.5°	271.5	279.0	248.8	230.0	230.0	226.2	222.4	241.3	297.8	290.3	294.1
70°	233.7	256.4	230.0	207.4	199.8	188.5	158.3	132.0	113.1	132.0	139.5
72.5°	188.5	203.6	196.0	177.2	158.3	143.3	113.1	86.7	64.1	56.6	56.6
75°	139.5	150.8	158.3	135.7	120.6	101.8	82.9	56.6	33.9	22.6	22.6
77.5°	101.8	113.1	116.9	105.6	90.5	71.6	52.8	37.7	18.9	7.5	7.5
80°	86.7	101.8	113.1	105.6	94.3	67.9	49.0	26.4	15.1	3.8	3.8
82.5°	82.9	101.8	113.1	101.8	90.5	64.1	49.0	30.2	11.3	3.8	3.8
85°	18.9	26.4	33.9	41.5	49.0	49.0	37.7	22.6	11.3	3.8	3.8
87.5°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	3.8	3.8	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)