

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: P531879

Luminaire Tested: **GALN-SA7B-722-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-722-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17186 lumens
Efficiency: N/A
Efficacy: 60.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

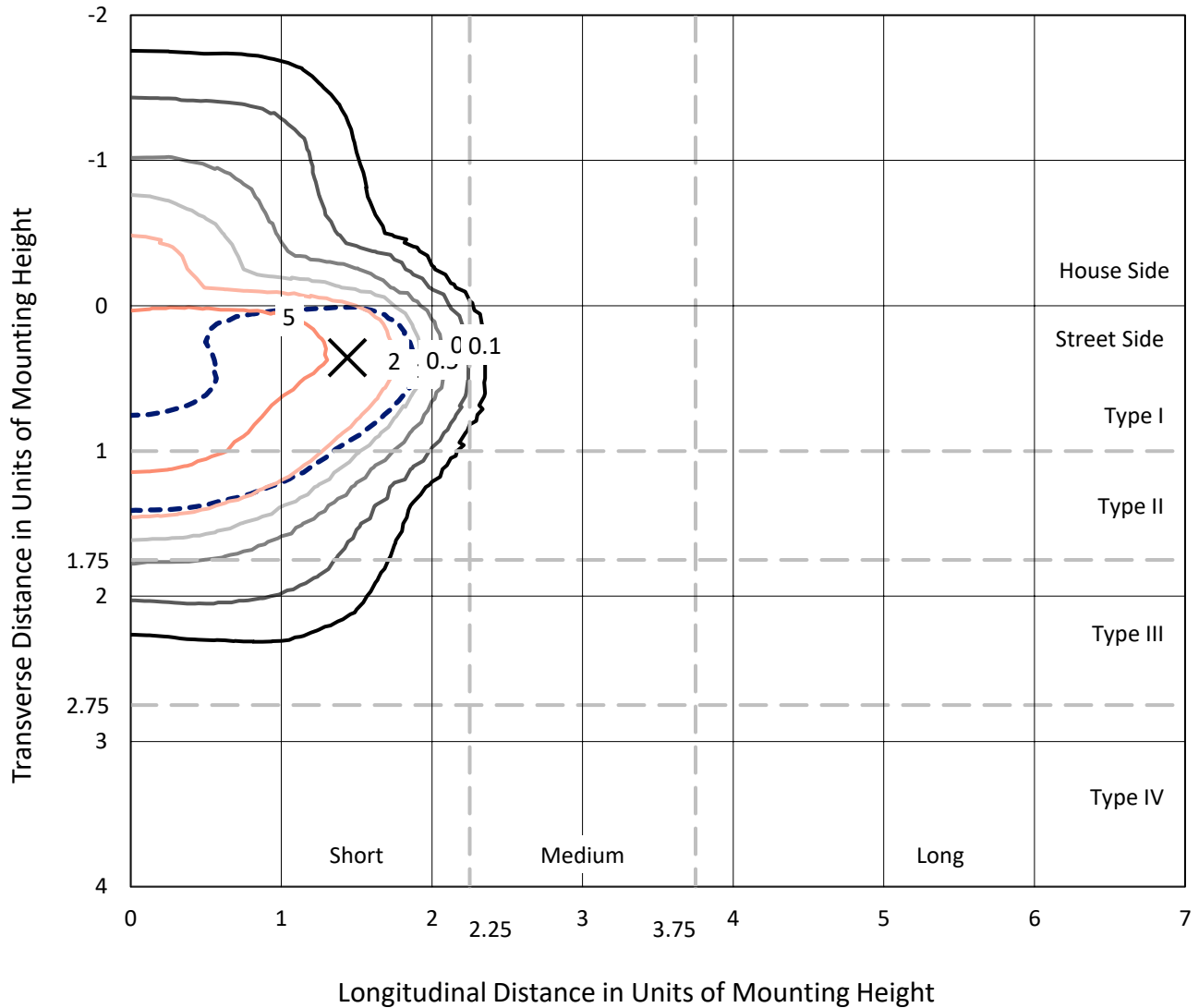
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

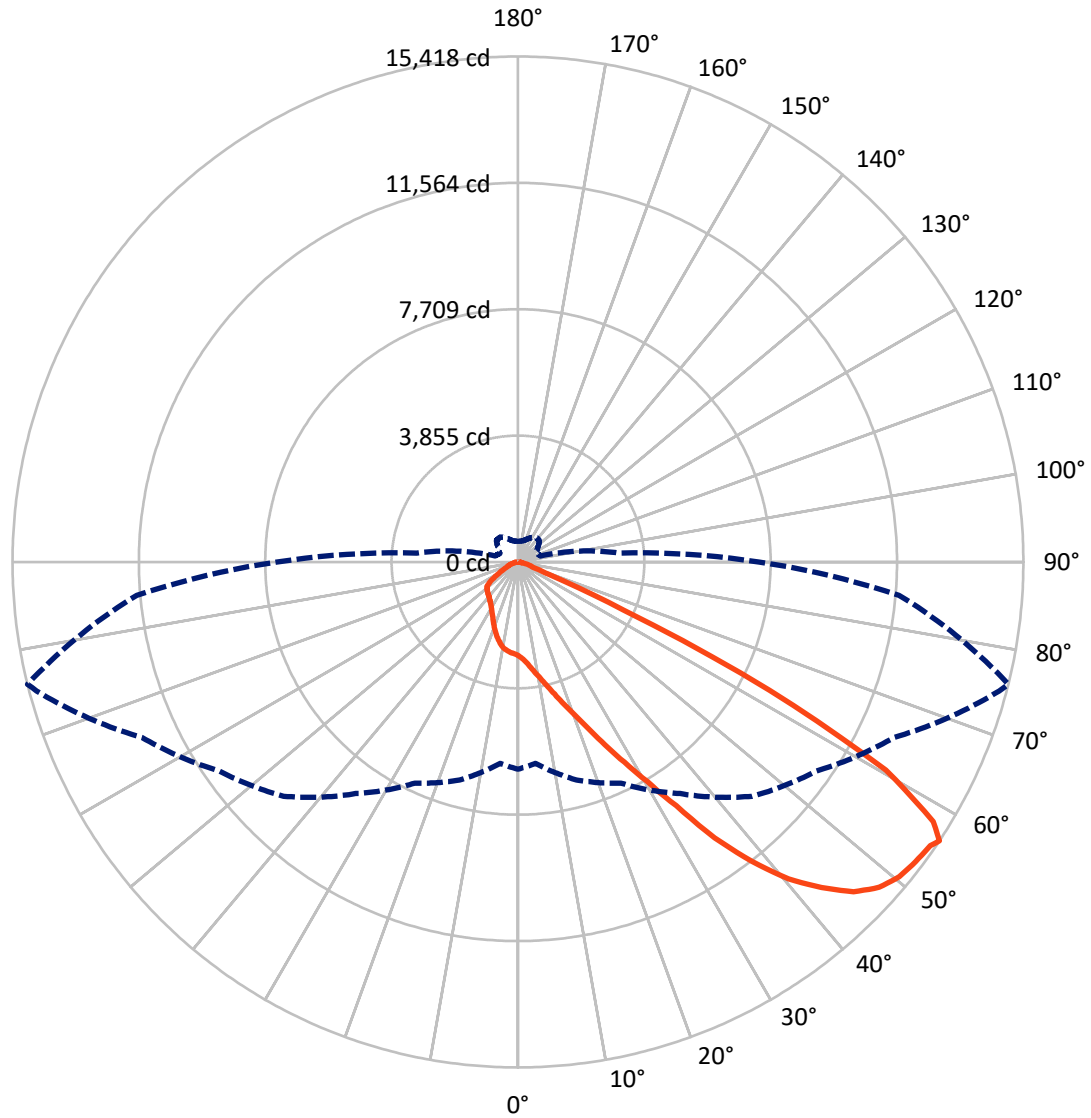
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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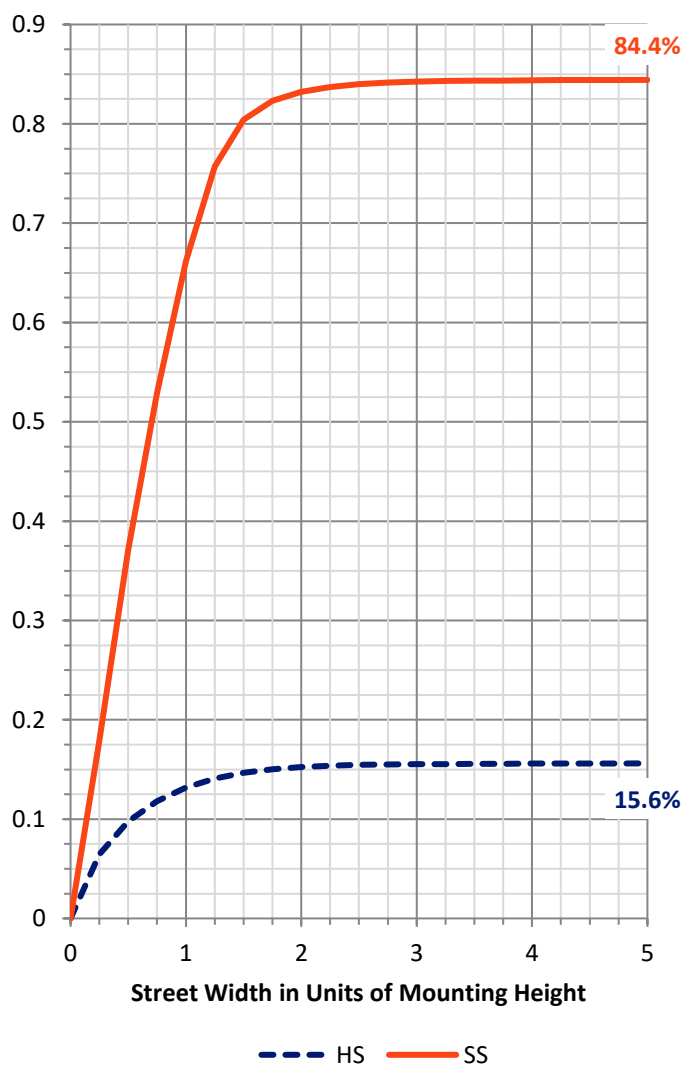
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2699.8	0.0	2699.8
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	14486.2	0.0	14486.2
	% Fixture	84.3	0.0	84.3
Total	Lumens	17186.0	0.0	17186.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.2	1.7
10°-20°	925.8	5.4
20°-30°	1678.7	9.8
30°-40°	2895.0	16.8
40°-50°	4703.0	27.4
50°-60°	4957.1	28.8
60°-70°	1514.6	8.8
70°-80°	194.2	1.1
80°-90°	29.5	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°	17186.0	100.0
0°-180°	17186.0	100.0

Coefficient of Utilization

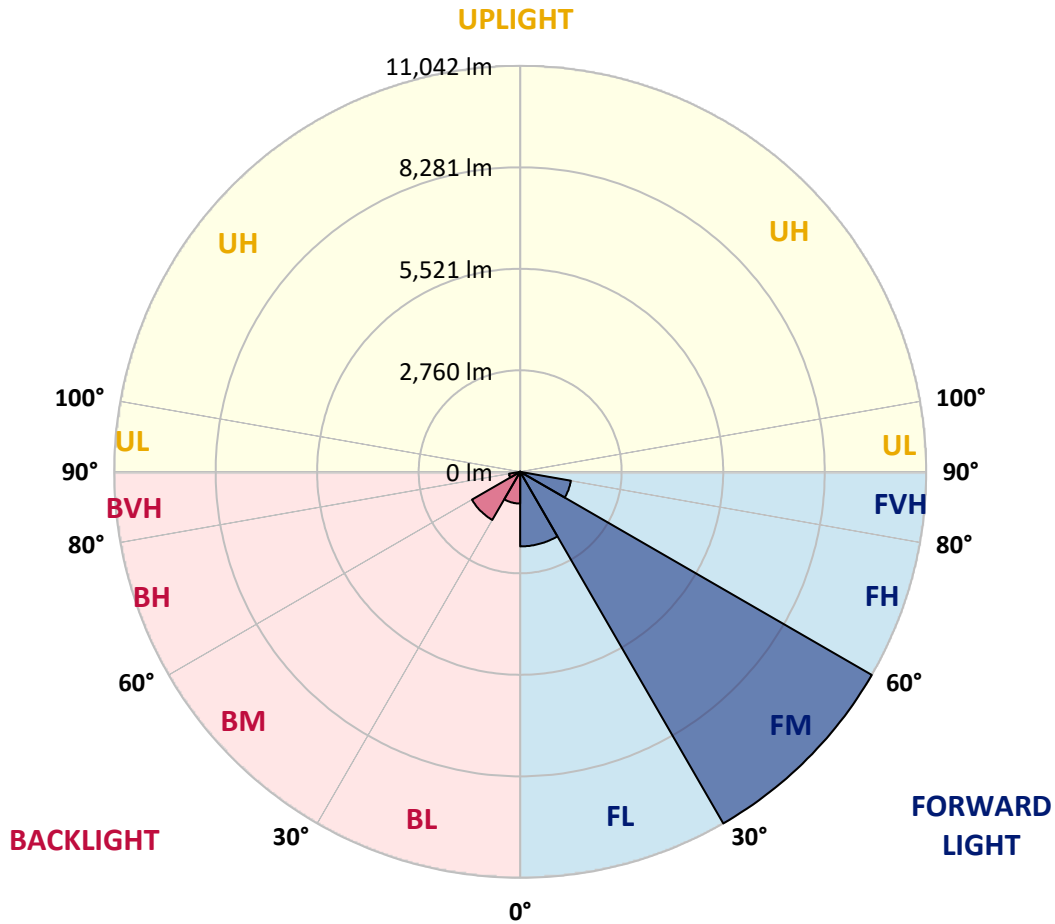


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2029.0	11.8			
FM (30°-60°)	11042.0	64.2			
FH (60°-80°)	1400.8	8.2			G1/1800
FVH (80°-90°)	14.5	0.1			G1/100
BL (0°-30°)	863.7	5.0	B2/1000		
BM (30°-60°)	1513.1	8.8	B2/2500		
BH (60°-80°)	308.0	1.8	B1/500		G1/500
BVH (80°-90°)	15.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2860.6	2860.6	2860.6	2860.6	2860.6	2860.6	2860.6	2860.6	2860.6	2860.6	2860.6
2.5°	3294.6	3218.6	3221.8	3215.4	3205.9	3171.1	3066.6	3050.7	2981.0	2962.0	2898.7
5°	3690.6	3624.1	3662.1	3605.1	3551.2	3519.6	3348.5	3269.3	3158.4	3117.2	3028.5
7.5°	3937.7	3906.1	3893.4	3896.5	3845.9	3766.7	3690.6	3516.4	3367.5	3335.8	3148.9
10°	4058.1	4039.1	4058.1	4048.6	4070.8	4080.3	3947.2	3842.7	3624.1	3570.3	3278.8
12.5°	4086.6	4124.6	4140.5	4181.7	4235.5	4327.4	4317.9	4175.3	3883.9	3849.0	3478.4
15°	4156.3	4188.0	4172.2	4238.7	4340.1	4495.3	4577.7	4555.5	4241.9	4178.5	3709.6
17.5°	4219.7	4162.7	4216.5	4349.6	4450.9	4688.5	4888.1	4980.0	4631.5	4558.6	3921.9
20°	4305.2	4289.4	4279.9	4346.4	4527.0	4843.8	5239.7	5407.6	5068.7	4992.6	4226.0
22.5°	4565.0	4568.1	4561.8	4463.6	4593.5	4951.5	5547.0	5962.0	5591.4	5528.0	4571.3
25°	4907.1	4865.9	4834.3	4755.1	4739.2	5049.7	5857.5	6640.0	6218.6	6174.3	4945.1
27.5°	5268.3	5268.3	5173.2	5100.4	4999.0	5293.6	6142.6	7298.9	6975.8	6915.6	5271.4
30°	5661.1	5683.3	5670.6	5515.4	5452.0	5559.7	6434.1	8141.6	7843.8	7767.8	5810.0
32.5°	6240.8	6193.3	6247.1	6117.3	5930.4	6025.4	6893.4	8895.5	8971.6	8863.9	6516.4
35°	7007.4	6978.9	6944.1	6731.8	6510.1	6586.1	7542.8	9823.7	10387.6	10333.8	7229.2
37.5°	7694.9	7679.0	7650.5	7504.8	7248.2	7340.1	8281.0	10789.9	11768.8	11591.4	8236.6
40°	8417.2	8502.7	8410.8	8281.0	8046.5	8249.3	9149.0	11363.3	12931.5	12716.0	9006.4
42.5°	9396.1	9329.5	9370.7	9133.1	9006.4	9228.2	10020.1	11936.7	13834.3	13577.7	9823.7
45°	10438.3	10441.5	10330.6	10254.6	9925.1	10165.9	10555.5	12253.5	14553.4	14353.9	10441.5
47.5°	11106.7	11103.6	11224.0	11344.3	11005.4	10767.8	10919.8	12554.5	14924.1	14832.2	10666.4
50°	11002.2	11033.9	11189.1	11639.0	11816.4	11496.4	11262.0	12465.8	15092.0	15082.5	10859.6
52.5°	9570.3	9674.8	9934.6	10584.0	11477.4	11873.4	11619.9	12630.5	15174.4	15190.2	11147.9
55°	7286.2	7343.2	7837.4	8626.3	9614.6	10970.5	11477.4	12760.4	15237.7	15266.2	11496.4
56°	6320.0	6167.9	6880.7	7441.5	8623.1	10105.7	11116.2	12659.0	15199.7	15418.3	11670.6
57.5°	4770.9	4669.5	5246.1	5946.2	7083.5	8648.4	9994.8	12180.7	14943.1	14939.9	11420.4
60°	2901.8	2800.4	3244.0	3655.8	4292.5	5325.3	6754.0	9700.2	12633.7	12899.8	9247.2
62.5°	1726.5	1789.9	2227.1	2477.3	2683.2	2790.9	3494.2	5765.6	8429.8	8619.9	5737.1
65°	1150.0	1172.1	1501.6	1913.4	2005.3	1596.6	1422.4	2334.8	3655.8	3538.6	2366.4
67.5°	709.6	760.3	1007.4	1438.2	1593.5	1165.8	674.8	871.2	1007.4	1007.4	684.3
70°	430.8	456.2	671.6	978.9	1092.9	750.8	491.0	491.0	484.7	475.2	408.7
72.5°	205.9	221.8	342.1	503.7	513.2	396.0	380.2	415.0	405.5	402.3	339.0
75°	88.7	95.0	120.4	158.4	180.6	167.9	231.3	297.8	307.3	297.8	243.9
77.5°	28.5	31.7	44.4	57.0	60.2	72.9	98.2	123.5	142.6	133.1	120.4
80°	3.2	6.3	12.7	28.5	44.4	57.0	72.9	82.4	91.9	91.9	85.5
82.5°	3.2	3.2	12.7	25.3	41.2	53.9	69.7	79.2	91.9	95.0	88.7
85°	0.0	3.2	9.5	22.2	34.8	34.8	31.7	31.7	22.2	22.2	22.2
87.5°	0.0	0.0	3.2	3.2	3.2	6.3	6.3	6.3	6.3	6.3	6.3
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°	2860.6	2860.6	2860.6	2860.6	2860.6	2860.6	2860.6	2860.6	2860.6	2860.6	2860.6
2.5°	2886.0	2879.6	2794.1	2740.3	2711.7	2654.7	2619.9	2594.5	2575.5	2553.3	2556.5
5°	2924.0	2901.8	2759.3	2661.1	2543.8	2480.5	2426.6	2382.3	2353.8	2347.4	2334.8
7.5°	3031.7	2914.5	2699.1	2521.7	2372.8	2309.4	2261.9	2233.4	2246.1	2217.5	2239.7
10°	3114.1	2939.8	2626.2	2369.6	2220.7	2173.2	2147.9	2170.0	2201.7	2189.0	2173.2
12.5°	3215.4	2965.2	2509.0	2223.9	2084.5	2049.6	2094.0	2135.2	2198.5	2223.9	2192.2
15°	3329.5	2993.7	2360.1	2056.0	1967.3	1995.8	2071.8	2144.7	2208.0	2239.7	2258.7
17.5°	3468.9	2984.2	2214.4	1922.9	1856.4	1938.8	2030.6	2097.2	2192.2	2239.7	2227.1
20°	3598.8	2952.5	2052.8	1789.9	1793.0	1869.1	1945.1	2052.8	2103.5	2166.9	2144.7
22.5°	3722.3	2895.5	1884.9	1698.0	1698.0	1815.2	1853.2	1922.9	1967.3	1999.0	1995.8
25°	3896.5	2787.8	1745.5	1609.3	1647.3	1723.4	1755.0	1777.2	1758.2	1783.5	1786.7
27.5°	4020.1	2676.9	1631.5	1530.1	1599.8	1656.8	1647.3	1634.6	1590.3	1555.5	1577.6
30°	4153.1	2547.0	1533.3	1476.3	1514.3	1565.0	1526.9	1488.9	1419.2	1362.2	1365.4
32.5°	4343.2	2486.8	1447.7	1412.9	1463.6	1469.9	1428.7	1371.7	1302.0	1248.2	1245.0
35°	4698.0	2448.8	1374.9	1371.7	1381.2	1384.4	1343.2	1273.5	1245.0	1200.6	1216.5
37.5°	5052.8	2429.8	1324.2	1311.5	1308.4	1311.5	1264.0	1197.5	1251.3	1248.2	1254.5
40°	5505.9	2515.3	1251.3	1235.5	1238.7	1238.7	1178.5	1159.5	1254.5	1264.0	1267.2
42.5°	5965.2	2623.0	1203.8	1153.1	1165.8	1165.8	1134.1	1111.9	1178.5	1115.1	1105.6
45°	6364.4	2781.4	1153.1	1070.8	1102.4	1118.3	1108.8	1070.8	1029.6	921.9	921.9
47.5°	6494.2	2920.8	1092.9	991.6	1016.9	1086.6	1058.1	978.9	906.0	817.3	811.0
50°	6722.3	3072.9	1045.4	899.7	953.5	1039.1	1010.6	931.4	849.0	785.6	788.8
52.5°	6956.8	3247.1	956.7	792.0	858.5	1001.1	1001.1	912.4	785.6	741.3	735.0
55°	7308.4	3240.8	798.3	649.4	766.6	944.0	959.9	817.3	703.3	668.4	668.4
56°	7359.1	3095.1	719.1	608.2	725.5	928.2	931.4	792.0	671.6	633.6	633.6
57.5°	6978.9	2794.1	630.4	557.6	674.8	899.7	902.9	769.8	646.3	592.4	586.1
60°	5369.6	1891.3	525.9	497.4	611.4	811.0	826.8	700.1	567.1	525.9	522.7
62.5°	3031.7	1048.6	462.5	449.8	525.9	690.6	738.1	611.4	481.5	459.3	465.7
65°	1384.4	576.6	389.7	364.3	424.5	532.2	595.6	503.7	396.0	370.6	370.6
67.5°	506.9	392.8	332.6	288.3	297.8	345.3	386.5	326.3	262.9	224.9	234.4
70°	361.1	329.5	291.4	250.3	231.3	224.9	221.8	183.7	129.9	101.4	107.7
72.5°	291.4	272.4	243.9	212.3	180.6	152.1	129.9	95.0	60.2	41.2	38.0
75°	209.1	199.6	177.4	152.1	126.7	107.7	88.7	60.2	31.7	15.8	15.8
77.5°	107.7	107.7	104.5	95.0	79.2	63.4	50.7	34.8	19.0	6.3	6.3
80°	82.4	88.7	91.9	82.4	72.9	57.0	41.2	25.3	12.7	3.2	3.2
82.5°	79.2	91.9	98.2	85.5	72.9	53.9	41.2	25.3	12.7	3.2	3.2
85°	19.0	19.0	28.5	31.7	41.2	44.4	34.8	22.2	9.5	3.2	3.2
87.5°	6.3	6.3	6.3	6.3	6.3	6.3	3.2	3.2	3.2	3.2	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)