

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: P529853

Luminaire Tested: **GALN-SA5A-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529853
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-SA5A-735-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 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: 14110 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

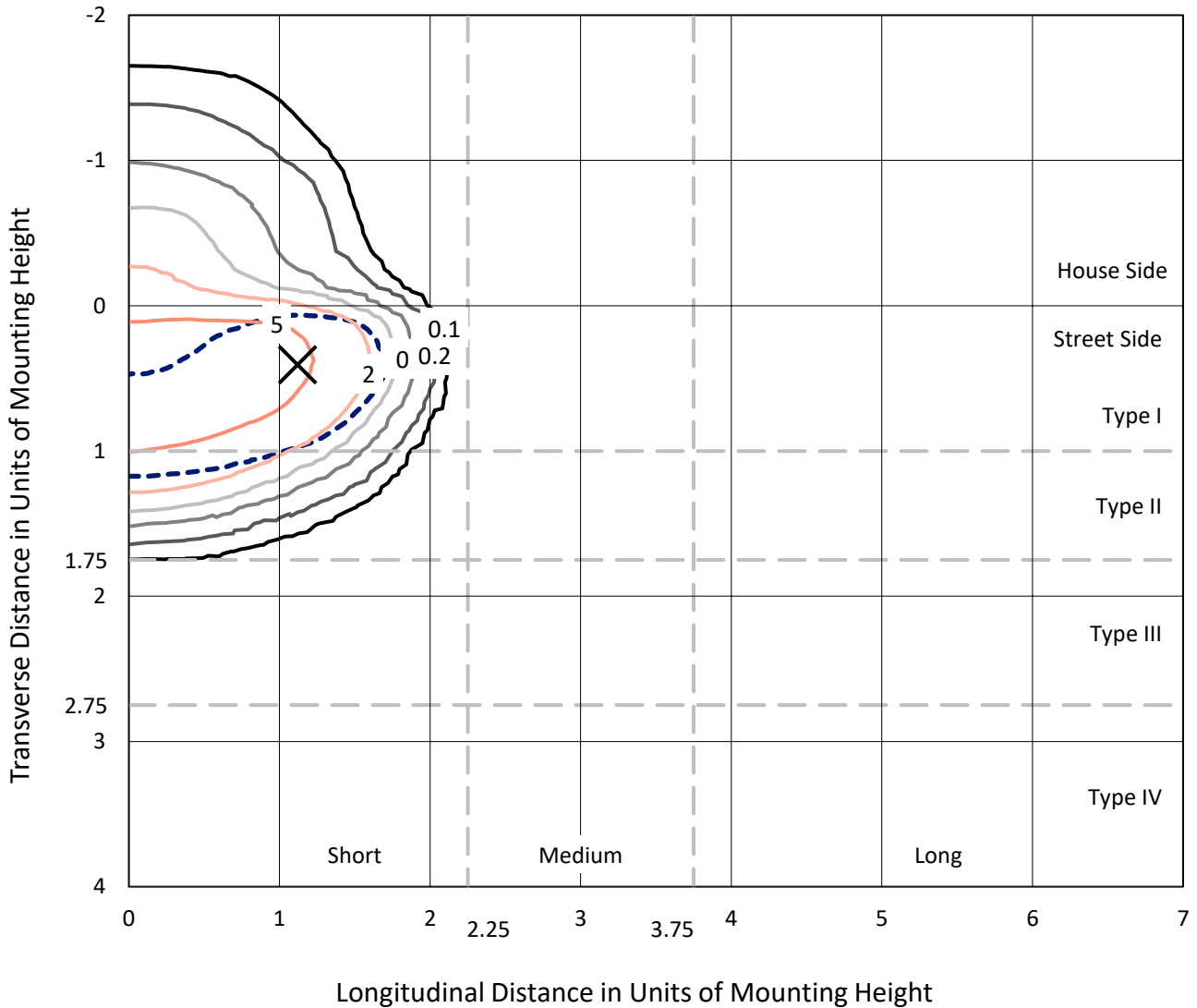
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

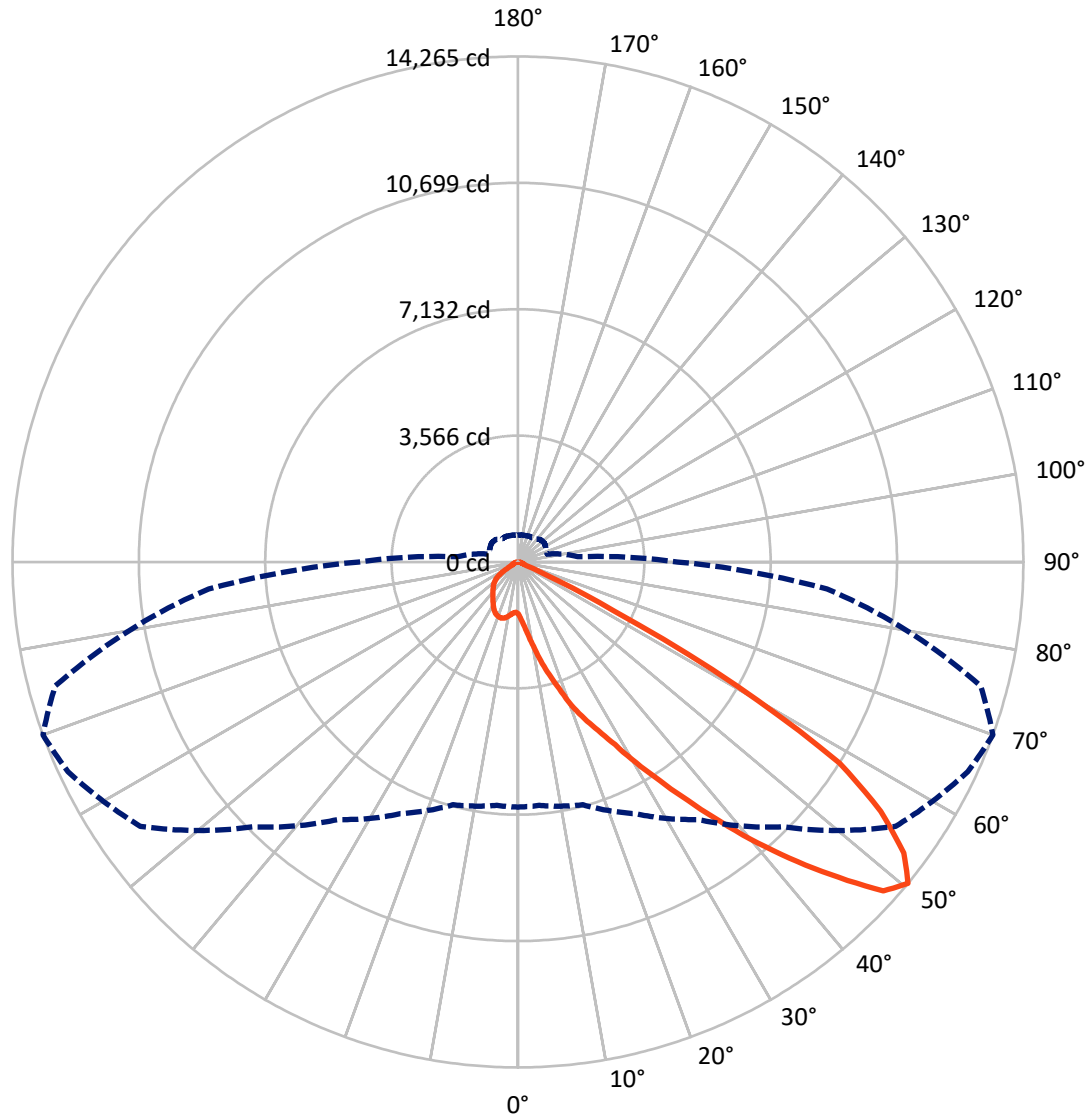
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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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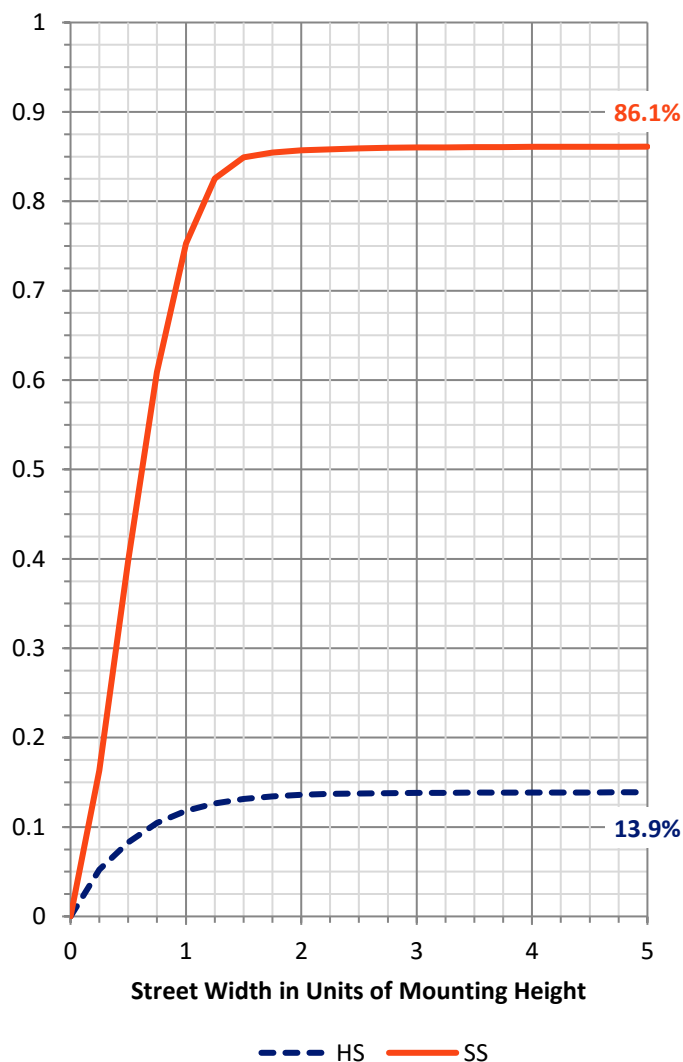
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1970.6	0.0	1970.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	12139.4	0.0	12139.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	14110.0	0.0	14110.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.1	1.3
10°-20°	822.1	5.8
20°-30°	1724.6	12.2
30°-40°	2972.7	21.1
40°-50°	4344.5	30.8
50°-60°	3383.6	24.0
60°-70°	573.3	4.1
70°-80°	78.8	0.6
80°-90°	20.4	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°	14110.0	100.0
0°-180°	14110.0	100.0

Coefficient of Utilization



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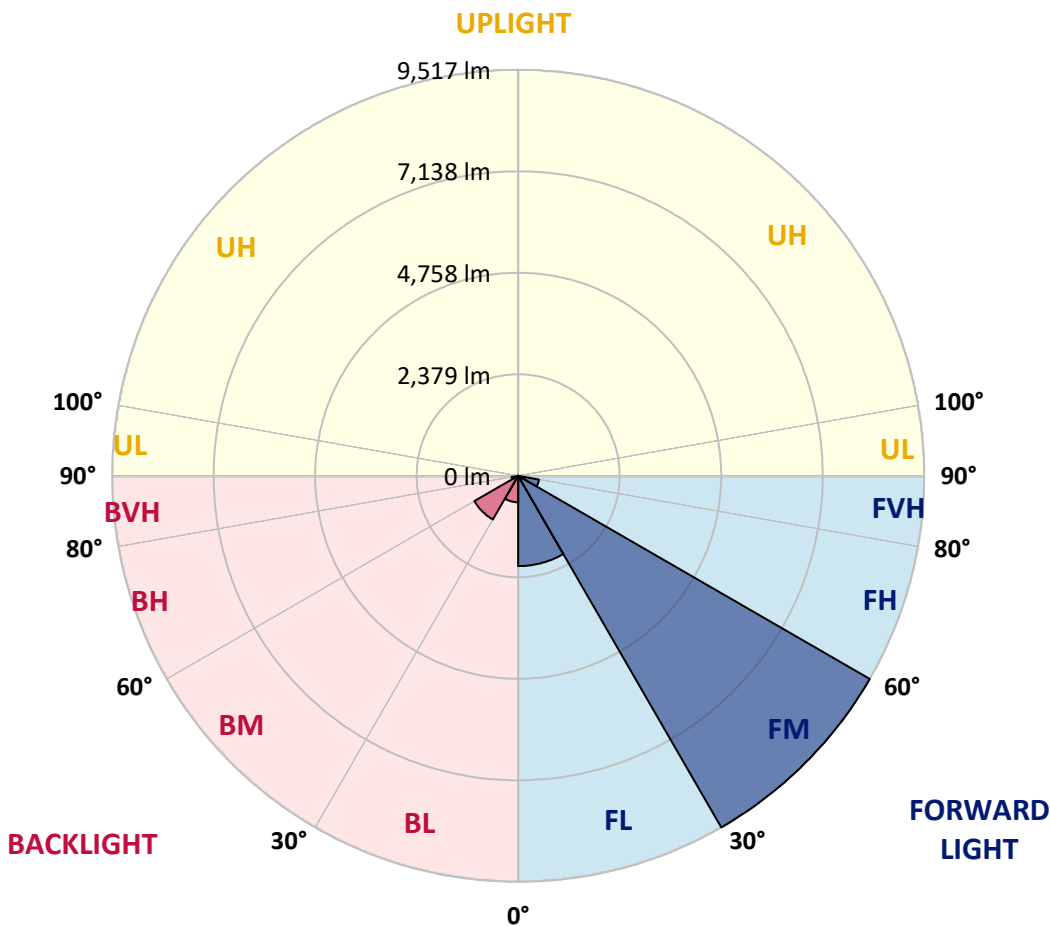
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2116.7	15.0			
FM (30°-60°)	9517.0	67.4			
FH (60°-80°)	496.4	3.5			G0/660
FVH (80°-90°)	9.4	0.1			G0/10
BL (0°-30°)	620.1	4.4	B2/1000		
BM (30°-60°)	1183.8	8.4	B2/2500		
BH (60°-80°)	155.7	1.1	B1/500		G1/500
BVH (80°-90°)	11.0	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5
2.5°	1913.9	1900.0	1869.8	1814.1	1790.9	1735.3	1702.8	1640.1	1600.7	1556.6	1507.9
5°	2695.7	2623.8	2579.7	2517.1	2333.8	2220.1	2032.2	1872.1	1797.9	1716.7	1605.4
7.5°	3503.0	3456.6	3396.3	3261.7	3136.5	2899.8	2577.4	2224.8	2074.0	1934.8	1714.4
10°	4171.1	4041.2	4034.3	3934.5	3797.6	3514.6	3127.2	2688.7	2419.6	2215.5	1869.8
12.5°	4637.4	4519.1	4572.5	4560.9	4433.3	4173.4	3725.7	3145.7	2865.0	2547.2	2029.9
15°	5062.0	5013.2	4997.0	4983.1	4932.0	4739.5	4338.2	3702.5	3296.5	2913.8	2210.8
17.5°	5477.2	5351.9	5412.3	5423.9	5419.2	5245.2	4869.4	4231.4	3753.5	3301.2	2401.1
20°	5846.1	5857.7	5776.5	5760.2	5746.3	5739.4	5372.8	4755.7	4315.0	3707.2	2649.3
22.5°	6319.3	6238.1	6310.0	6263.6	6173.2	6117.5	5836.8	5219.7	4802.1	4196.6	2902.2
25°	6878.4	6943.4	6774.0	6755.5	6655.7	6463.2	6210.3	5739.4	5270.7	4651.3	3175.9
27.5°	7567.4	7453.7	7409.7	7307.6	7126.6	7045.4	6748.5	6275.2	5836.8	5129.2	3440.4
30°	8159.0	8128.8	7908.4	7787.8	7630.1	7627.7	7212.5	7001.4	6574.5	5878.6	3804.6
32.5°	8641.5	8509.3	8428.1	8344.6	8217.0	8251.8	7901.5	7790.1	7360.9	6574.5	4233.8
35°	8964.0	8868.9	8820.1	8692.6	8655.4	8810.9	8664.7	8618.3	8265.7	7553.5	4737.2
37.5°	9066.1	9096.2	9086.9	8926.9	9005.7	9425.6	9613.5	9492.9	9307.3	8585.8	5282.3
40°	9156.5	9177.4	9131.0	9318.9	9543.9	10021.8	10701.6	10502.1	10432.5	9632.1	6040.9
42.5°	9207.6	9191.3	9191.3	9516.1	9857.1	10817.6	11752.5	11620.2	11566.9	10745.6	6917.9
45°	8987.2	8829.4	8998.8	9439.6	10126.2	11209.6	12592.3	12775.5	12699.0	12070.3	7943.2
47.5°	8163.6	8261.1	8356.2	8945.4	9799.1	11089.0	13107.3	13731.3	13872.8	13183.8	8616.0
50°	6917.9	6897.0	7094.2	7836.5	8873.5	10569.3	13007.5	14007.4	14264.9	13517.9	8757.5
52.5°	5031.8	5184.9	5398.3	6136.1	7365.6	9223.8	11720.0	13295.2	13638.5	13107.3	8664.7
55°	2930.0	2760.6	3240.9	3864.9	5024.8	6957.3	9908.2	11784.9	12420.6	12360.3	8196.1
57.5°	1173.9	1136.7	1301.4	1753.8	2621.5	4312.6	7205.5	9683.1	10701.6	11321.0	7203.2
60°	515.0	503.4	591.6	714.5	1071.8	1988.1	3941.5	6022.4	7084.9	7910.8	4957.6
62.5°	371.2	366.5	410.6	454.7	566.0	865.3	1656.4	2426.6	3025.1	3653.8	2220.1
65°	299.3	310.9	341.0	364.2	417.6	480.2	584.6	675.1	828.2	858.4	489.5
67.5°	243.6	252.9	280.7	306.2	315.5	259.8	269.1	236.6	236.6	211.1	169.4
70°	178.6	180.9	213.4	243.6	194.9	104.4	183.3	183.3	164.7	157.8	143.8
72.5°	132.2	134.6	160.1	150.8	76.6	65.0	134.6	148.5	134.6	127.6	116.0
75°	97.4	99.8	83.5	34.8	32.5	41.8	78.9	102.1	97.4	95.1	88.2
77.5°	18.6	13.9	11.6	16.2	23.2	34.8	51.0	62.6	65.0	69.6	65.0
80°	2.3	2.3	7.0	13.9	25.5	37.1	53.4	60.3	62.6	65.0	60.3
82.5°	0.0	2.3	7.0	13.9	25.5	34.8	46.4	53.4	58.0	60.3	58.0
85°	0.0	2.3	4.6	11.6	20.9	25.5	23.2	16.2	13.9	16.2	11.6
87.5°	0.0	0.0	2.3	2.3	4.6	4.6	4.6	4.6	4.6	4.6	4.6
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°	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5
2.5°	1480.1	1470.8	1438.3	1403.5	1373.4	1387.3	1373.4	1361.8	1366.4	1361.8	1357.1
5°	1561.3	1519.5	1449.9	1419.8	1394.2	1391.9	1385.0	1382.6	1385.0	1385.0	1364.1
7.5°	1637.8	1570.6	1496.3	1463.8	1433.7	1436.0	1419.8	1419.8	1417.4	1405.8	1401.2
10°	1753.8	1663.3	1568.2	1510.2	1473.1	1466.2	1449.9	1433.7	1433.7	1433.7	1410.5
12.5°	1881.4	1767.7	1637.8	1570.6	1526.5	1491.7	1466.2	1461.5	1436.0	1431.4	1419.8
15°	1992.8	1848.9	1684.2	1591.4	1535.8	1489.4	1449.9	1424.4	1412.8	1405.8	1396.6
17.5°	2101.8	1918.5	1709.7	1591.4	1531.1	1477.8	1436.0	1412.8	1385.0	1389.6	1371.0
20°	2248.0	1992.8	1716.7	1561.3	1487.0	1436.0	1380.3	1368.7	1352.5	1338.6	1343.2
22.5°	2389.5	2046.1	1695.8	1524.2	1417.4	1357.1	1329.3	1315.4	1308.4	1296.8	1280.6
25°	2517.1	2104.1	1663.3	1456.9	1343.2	1299.1	1273.6	1271.3	1255.0	1255.0	1224.9
27.5°	2647.0	2125.0	1607.7	1378.0	1278.2	1252.7	1241.1	1236.5	1229.5	1213.3	1192.4
30°	2795.4	2132.0	1526.5	1296.8	1220.3	1192.4	1208.7	1220.3	1190.1	1159.9	1169.2
32.5°	2918.4	2115.7	1429.0	1220.3	1178.5	1164.6	1197.1	1208.7	1173.9	1141.4	1125.1
35°	3066.9	2076.3	1333.9	1159.9	1136.7	1164.6	1192.4	1192.4	1122.8	1083.4	1074.1
37.5°	3291.9	2032.2	1245.8	1108.9	1092.7	1150.7	1187.8	1162.3	1053.2	1004.5	992.9
40°	3533.2	2004.4	1159.9	1057.9	1069.5	1127.5	1148.3	1069.5	958.1	927.9	918.7
42.5°	3883.5	1948.7	1083.4	1013.8	1048.6	1095.0	1095.0	953.5	911.7	895.5	893.1
45°	4319.6	1909.3	1016.1	976.7	1018.4	1030.0	992.9	893.1	863.0	858.4	860.7
47.5°	4533.0	1832.7	946.5	932.6	962.7	965.1	867.6	844.4	818.9	812.0	807.3
50°	4500.5	1695.8	856.0	874.6	916.3	893.1	791.1	795.7	772.5	770.2	758.6
52.5°	4273.2	1480.1	765.6	809.6	856.0	788.8	728.4	723.8	723.8	693.6	682.0
55°	3788.3	1192.4	656.5	712.2	767.9	663.5	647.2	642.6	631.0	603.2	596.2
57.5°	2999.6	874.6	494.1	554.4	651.9	563.7	561.4	540.5	510.4	489.5	489.5
60°	1784.0	503.4	310.9	338.7	431.5	457.0	508.1	498.8	447.7	415.3	406.0
62.5°	814.3	259.8	197.2	201.8	232.0	296.9	399.0	461.7	389.7	334.1	329.4
65°	273.7	192.5	162.4	155.4	160.1	178.6	238.9	327.1	310.9	257.5	248.2
67.5°	167.0	171.7	153.1	141.5	141.5	139.2	136.9	148.5	183.3	178.6	180.9
70°	143.8	157.8	141.5	127.6	123.0	116.0	97.4	81.2	69.6	81.2	85.8
72.5°	116.0	125.3	120.6	109.0	97.4	88.2	69.6	53.4	39.4	34.8	34.8
75°	85.8	92.8	97.4	83.5	74.2	62.6	51.0	34.8	20.9	13.9	13.9
77.5°	62.6	69.6	71.9	65.0	55.7	44.1	32.5	23.2	11.6	4.6	4.6
80°	53.4	62.6	69.6	65.0	58.0	41.8	30.2	16.2	9.3	2.3	2.3
82.5°	51.0	62.6	69.6	62.6	55.7	39.4	30.2	18.6	7.0	2.3	2.3
85°	11.6	16.2	20.9	25.5	30.2	30.2	23.2	13.9	7.0	2.3	2.3
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	2.3	2.3	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)