

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: P527072

Luminaire Tested: **GALN-SA2A-740-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527072
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-SA2A-740-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA 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: 8081.1 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

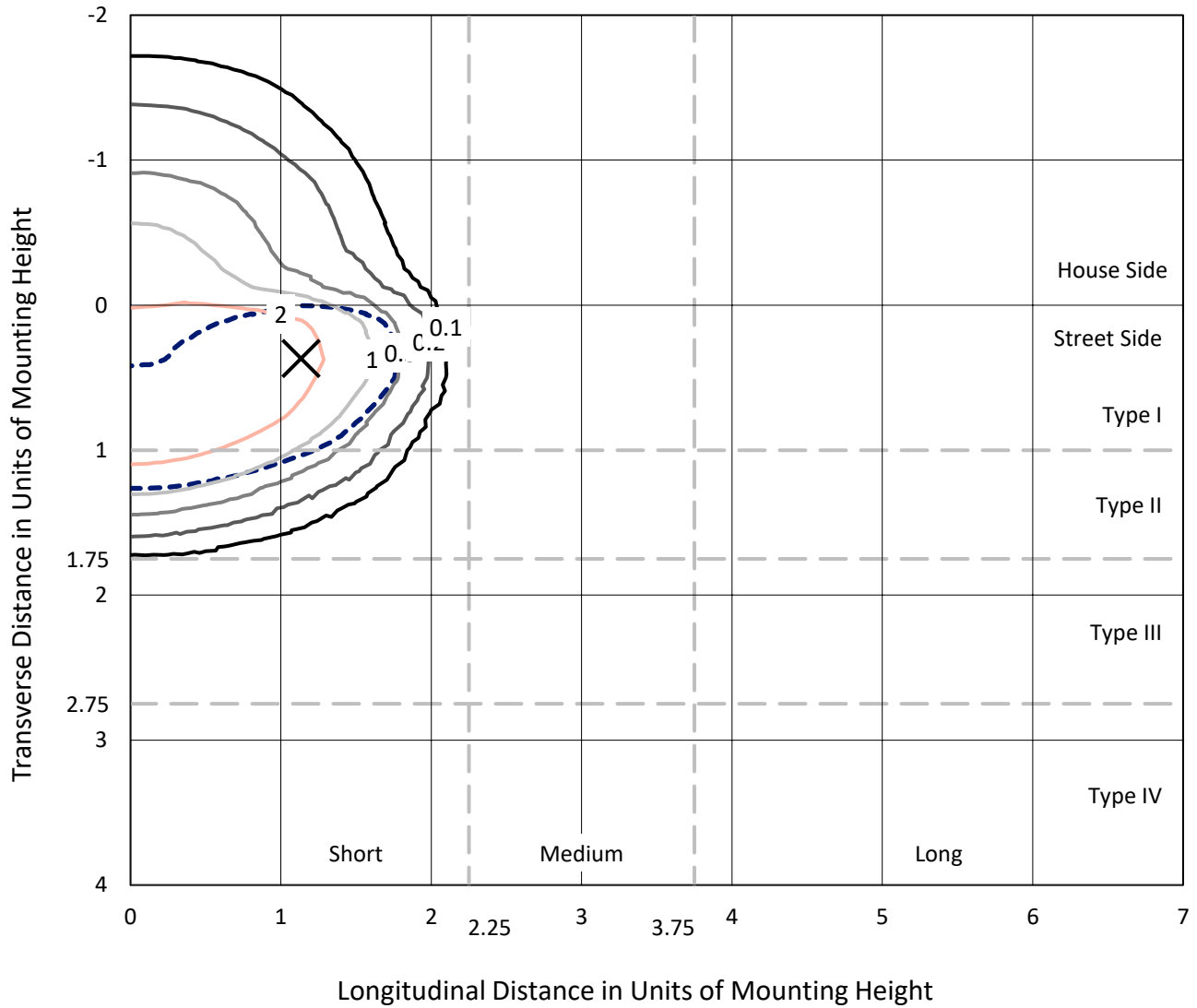
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

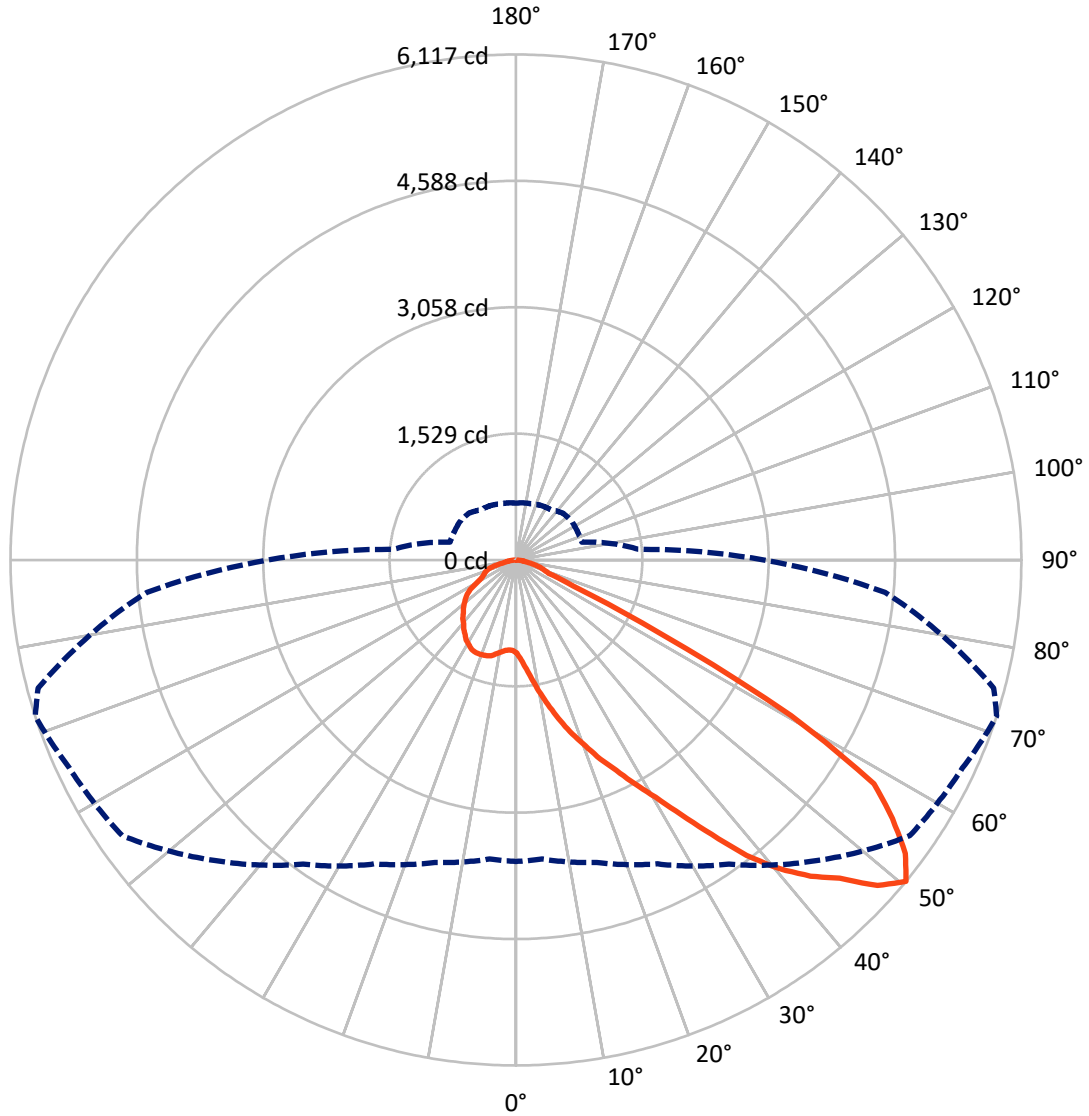
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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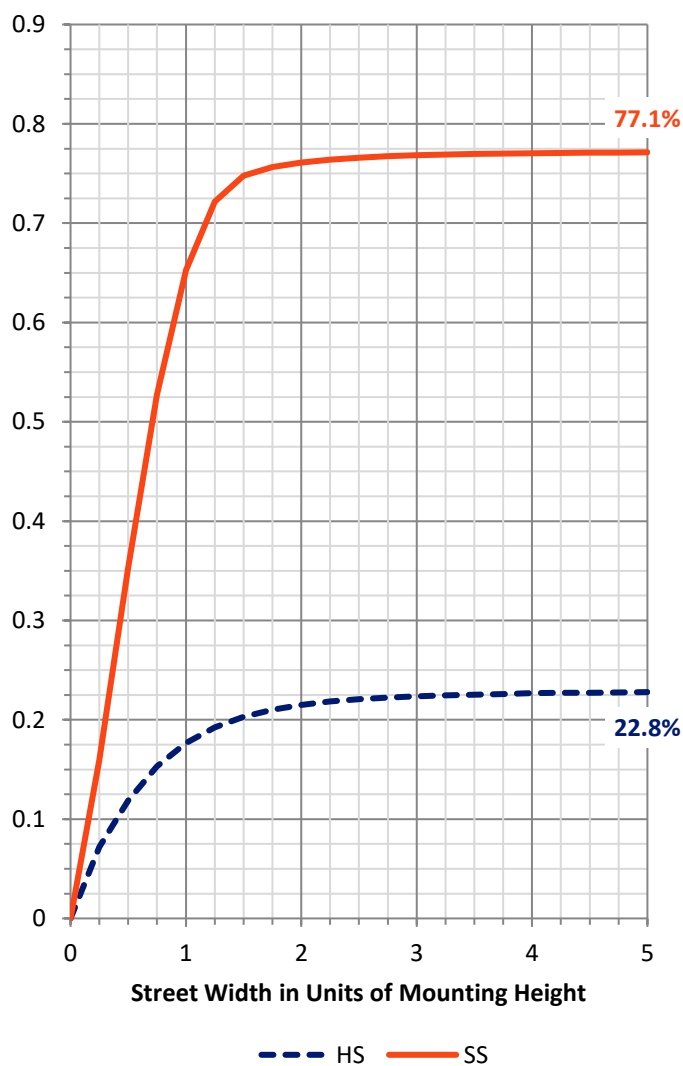
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1851.4	0.0	1851.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	6229.6	0.0	6229.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	8081.1	0.0	8081.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.3	1.6
10°-20°	494.7	6.1
20°-30°	959.1	11.9
30°-40°	1588.9	19.7
40°-50°	2223.3	27.5
50°-60°	1875.6	23.2
60°-70°	571.7	7.1
70°-80°	200.6	2.5
80°-90°	34.9	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°	8081.1	100.0
0°-180°	8081.1	100.0

Coefficient of Utilization

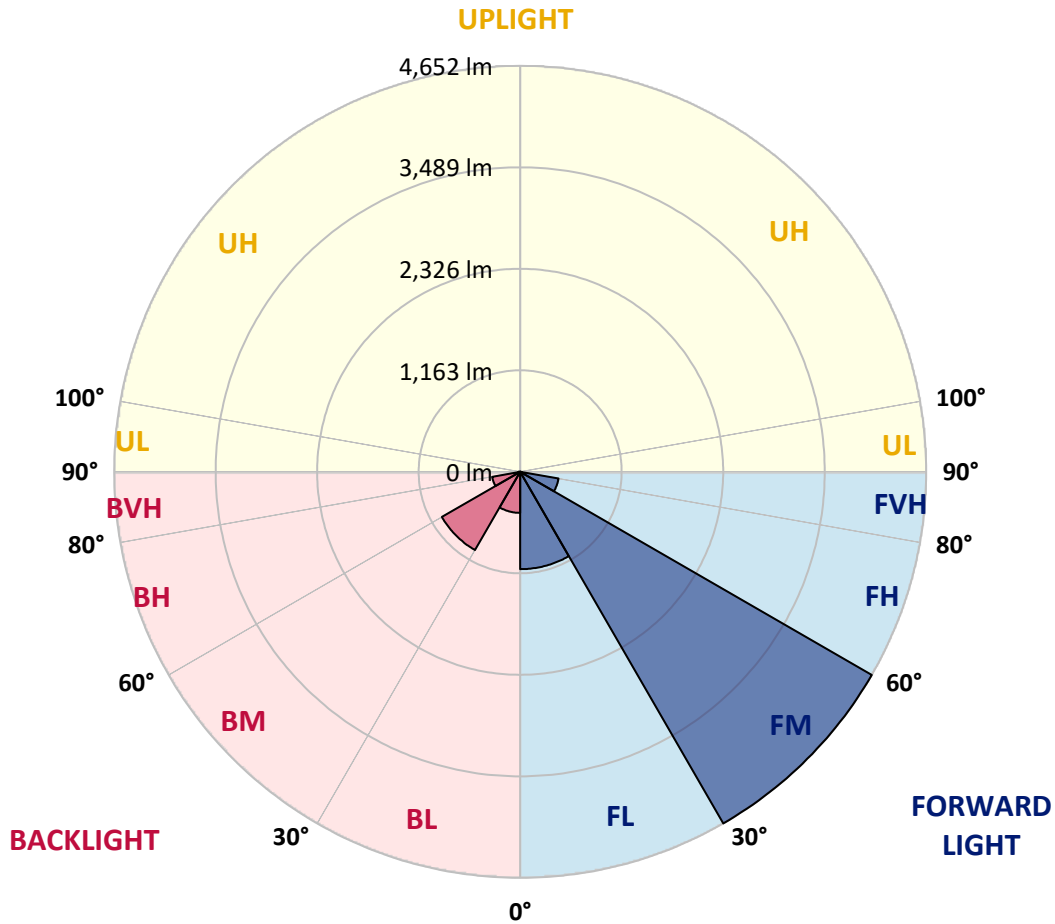


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1115.5	13.8			
FM (30°-60°)	4652.5	57.6			
FH (60°-80°)	446.1	5.5			G0/660
FVH (80°-90°)	15.6	0.2			G1/100
BL (0°-30°)	470.6	5.8	B1/500		
BM (30°-60°)	1035.4	12.8	B2/2500		
BH (60°-80°)	326.2	4.0	B1/500		G1/500
BVH (80°-90°)	19.3	0.2			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°	72°	75°	85°
0°	1124.9	1124.9	1124.9	1124.9	1124.9	1124.9	1124.9	1124.9	1124.9	1124.9	1124.9
2.5°	1446.9	1437.9	1410.9	1401.9	1369.9	1311.9	1291.9	1232.9	1207.9	1184.9	1157.9
5°	1829.9	1787.9	1784.9	1733.9	1659.9	1616.9	1488.9	1402.9	1323.9	1283.9	1209.9
7.5°	2073.9	2074.9	2074.9	2032.9	1973.9	1864.9	1749.9	1594.9	1475.9	1416.9	1290.9
10°	2305.9	2285.9	2274.9	2270.9	2230.9	2124.9	2001.9	1809.9	1646.9	1577.9	1351.9
12.5°	2469.9	2452.9	2477.9	2464.9	2435.9	2366.9	2250.9	2031.9	1827.9	1734.9	1449.9
15°	2547.9	2559.9	2579.9	2615.9	2602.9	2576.9	2448.9	2259.9	2022.9	1917.9	1536.9
17.5°	2667.9	2634.9	2658.9	2703.9	2739.9	2727.9	2654.9	2424.9	2215.9	2086.9	1653.9
20°	2751.9	2732.9	2744.9	2796.9	2823.9	2891.9	2853.9	2640.9	2400.9	2264.9	1791.9
22.5°	2991.9	2963.9	2924.9	2932.9	2942.9	2990.9	2999.9	2877.9	2615.9	2471.9	1922.9
25°	3287.8	3261.8	3215.8	3168.8	3139.8	3130.8	3161.8	3063.8	2821.9	2672.9	2063.9
27.5°	3613.8	3569.8	3540.8	3443.8	3365.8	3353.8	3338.8	3285.8	3065.8	2904.9	2222.9
30°	3930.8	3895.8	3856.8	3701.8	3620.8	3607.8	3533.8	3548.8	3330.8	3151.8	2402.9
32.5°	4170.8	4173.8	4084.8	3967.8	3891.8	3822.8	3795.8	3838.8	3670.8	3526.8	2603.9
35°	4364.8	4373.8	4288.8	4182.8	4100.8	4148.8	4136.8	4156.8	4076.8	3900.8	2837.9
37.5°	4553.8	4508.8	4417.8	4366.8	4323.8	4402.8	4504.8	4521.8	4536.8	4329.8	3109.8
40°	4584.8	4588.8	4535.8	4571.8	4517.8	4636.8	4873.8	4851.8	4912.8	4731.8	3404.8
42.5°	4540.8	4549.8	4570.8	4621.8	4751.8	4894.8	5246.7	5156.7	5230.7	5069.7	3691.8
45°	4468.8	4431.8	4457.8	4651.8	4876.8	5194.7	5587.7	5517.7	5493.7	5358.7	4033.8
47.5°	4124.8	4162.8	4243.8	4482.8	4820.8	5246.7	5829.7	5813.7	5885.7	5790.7	4344.8
50°	3647.8	3632.8	3788.8	4057.8	4493.8	5144.7	5816.7	5961.7	6116.7	5984.7	4483.8
52.5°	2731.9	2811.9	2945.9	3279.8	3901.8	4588.8	5532.7	5774.7	5900.7	5872.7	4371.8
55°	1726.9	1750.9	1831.9	2228.9	2788.9	3682.8	4742.8	5303.7	5528.7	5633.7	4268.8
57.5°	839.0	794.0	893.0	1211.9	1610.9	2476.9	3657.8	4619.8	5108.7	5298.7	4044.8
60°	438.0	455.0	494.0	608.0	833.0	1285.9	2279.9	3078.8	3825.8	4117.8	3065.8
62.5°	363.0	369.0	395.0	452.0	554.0	740.0	1163.9	1500.9	1950.9	2213.9	1743.9
65°	308.0	311.0	339.0	377.0	442.0	521.0	599.0	627.0	759.0	779.0	620.0
67.5°	257.0	260.0	290.0	326.0	368.0	389.0	409.0	407.0	422.0	416.0	415.0
70°	198.0	201.0	232.0	270.0	291.0	279.0	341.0	355.0	361.0	366.0	374.0
72.5°	143.0	149.0	173.0	200.0	189.0	217.0	281.0	302.0	310.0	313.0	323.0
75°	104.0	106.0	112.0	104.0	120.0	151.0	198.0	224.0	234.0	237.0	252.0
77.5°	46.0	47.0	48.0	60.0	77.0	94.0	118.0	139.0	153.0	157.0	161.0
80°	24.0	25.0	31.0	41.0	55.0	69.0	86.0	98.0	107.0	108.0	112.0
82.5°	15.0	16.0	22.0	29.0	39.0	51.0	63.0	73.0	80.0	81.0	82.0
85°	7.0	9.0	13.0	18.0	26.0	33.0	34.0	29.0	31.0	32.0	30.0
87.5°	2.0	3.0	4.0	3.0	4.0	4.0	5.0	6.0	6.0	6.0	7.0
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°	1124.9	1124.9	1124.9	1124.9	1124.9	1124.9	1124.9	1124.9	1124.9	1124.9	1124.9
2.5°	1142.9	1133.9	1098.9	1085.9	1051.9	1057.9	1039.9	1038.9	1034.9	1033.9	1032.9
5°	1170.9	1142.9	1100.9	1068.9	1049.9	1047.9	1034.9	1034.9	1038.9	1041.9	1034.9
7.5°	1216.9	1184.9	1113.9	1083.9	1066.9	1063.9	1054.9	1047.9	1056.9	1053.9	1045.9
10°	1269.9	1213.9	1138.9	1112.9	1084.9	1077.9	1077.9	1080.9	1065.9	1070.9	1062.9
12.5°	1328.9	1253.9	1170.9	1140.9	1107.9	1103.9	1101.9	1079.9	1087.9	1083.9	1063.9
15°	1403.9	1299.9	1211.9	1160.9	1132.9	1114.9	1088.9	1084.9	1079.9	1069.9	1060.9
17.5°	1484.9	1349.9	1230.9	1166.9	1124.9	1111.9	1091.9	1070.9	1055.9	1057.9	1050.9
20°	1553.9	1395.9	1237.9	1172.9	1118.9	1093.9	1062.9	1049.9	1033.9	1032.9	1031.9
22.5°	1635.9	1457.9	1247.9	1156.9	1100.9	1074.9	1053.9	1030.9	1019.9	1006.0	1012.9
25°	1733.9	1481.9	1249.9	1147.9	1087.9	1041.9	1030.9	1006.0	1002.0	982.0	986.0
27.5°	1804.9	1494.9	1233.9	1119.9	1057.9	1022.9	1003.0	985.0	978.0	963.0	959.0
30°	1899.9	1514.9	1199.9	1084.9	1027.9	989.0	977.0	973.0	953.0	937.0	935.0
32.5°	2007.9	1527.9	1177.9	1048.9	997.0	967.0	973.0	954.0	929.0	915.0	911.0
35°	2093.9	1532.9	1122.9	1007.9	976.0	957.0	950.0	946.0	910.0	897.0	887.0
37.5°	2224.9	1521.9	1076.9	979.0	953.0	946.0	940.0	913.0	872.0	853.0	839.0
40°	2377.9	1518.9	1017.9	938.0	931.0	939.0	921.0	879.0	822.0	801.0	791.0
42.5°	2524.9	1539.9	981.0	916.0	907.0	910.0	885.0	822.0	794.0	782.0	766.0
45°	2770.9	1583.9	920.0	882.0	878.0	876.0	846.0	780.0	764.0	749.0	746.0
47.5°	2992.9	1554.9	881.0	847.0	851.0	840.0	776.0	755.0	737.0	722.0	717.0
50°	3005.9	1485.9	826.0	820.0	821.0	802.0	741.0	727.0	704.0	694.0	687.0
52.5°	2937.9	1372.9	775.0	777.0	780.0	749.0	698.0	688.0	669.0	655.0	651.0
55°	2746.9	1196.9	725.0	733.0	741.0	682.0	666.0	641.0	626.0	606.0	607.0
57.5°	2419.9	964.0	655.0	668.0	685.0	620.0	608.0	577.0	555.0	539.0	537.0
60°	1621.9	686.0	550.0	555.0	593.0	567.0	566.0	535.0	505.0	491.0	483.0
62.5°	957.0	524.0	475.0	470.0	469.0	484.0	509.0	498.0	459.0	432.0	440.0
65°	501.0	453.0	442.0	425.0	415.0	411.0	430.0	435.0	409.0	380.0	378.0
67.5°	421.0	421.0	412.0	406.0	392.0	375.0	363.0	347.0	343.0	335.0	325.0
70°	383.0	393.0	390.0	376.0	364.0	345.0	314.0	288.0	263.0	254.0	260.0
72.5°	334.0	344.0	344.0	337.0	321.0	292.0	262.0	232.0	211.0	195.0	193.0
75°	257.0	262.0	274.0	266.0	245.0	227.0	196.0	165.0	145.0	130.0	127.0
77.5°	164.0	172.0	172.0	171.0	156.0	139.0	119.0	97.0	82.0	71.0	68.0
80°	109.0	114.0	118.0	114.0	104.0	91.0	76.0	61.0	50.0	41.0	39.0
82.5°	80.0	86.0	89.0	85.0	75.0	65.0	54.0	43.0	32.0	25.0	23.0
85°	31.0	32.0	36.0	43.0	42.0	41.0	33.0	24.0	18.0	13.0	12.0
87.5°	8.0	7.0	8.0	8.0	7.0	6.0	6.0	6.0	6.0	3.0	4.0
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)