

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: P526121

Luminaire Tested: **GALN-SA1A-740-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526121
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-740-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3452 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

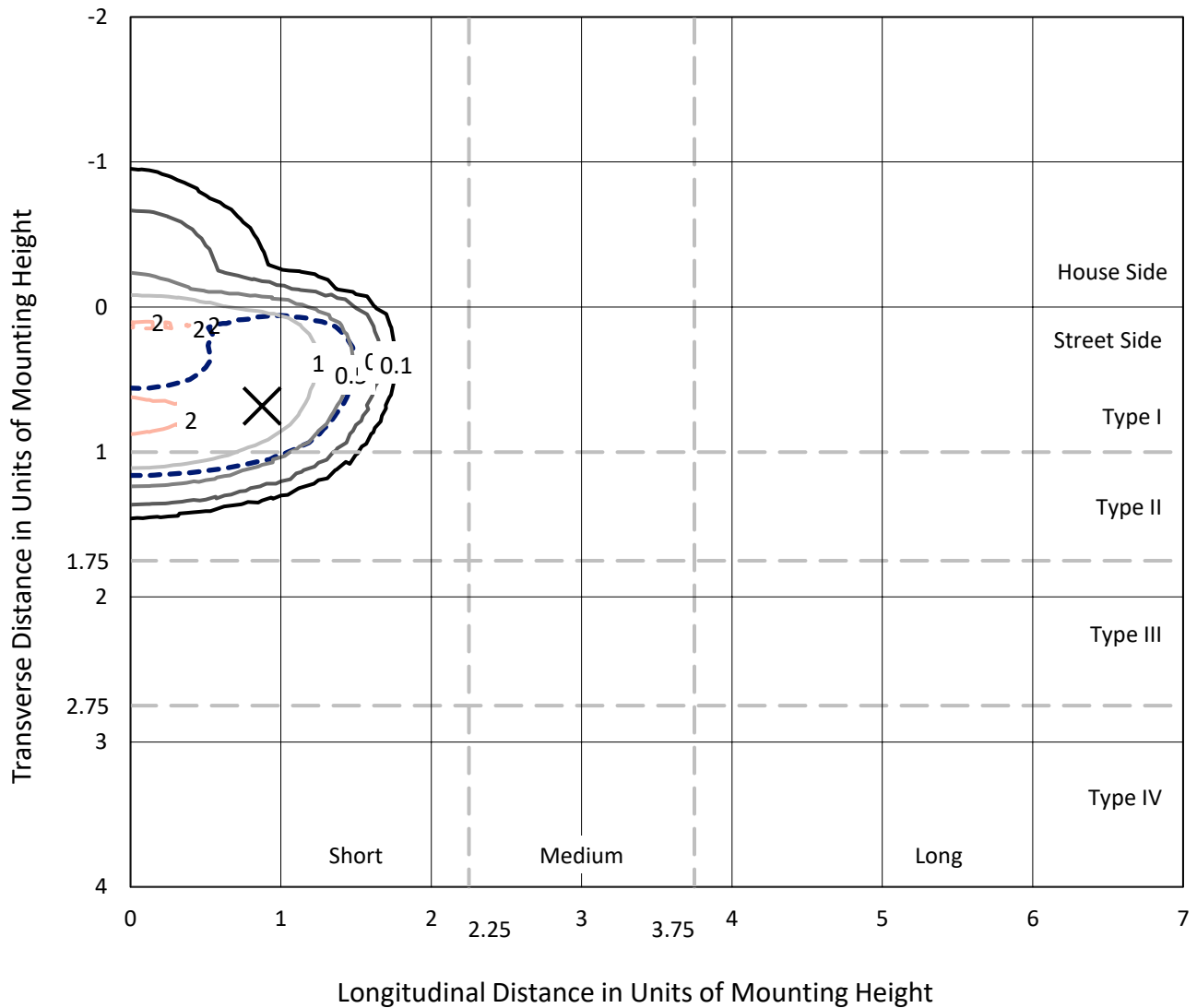
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

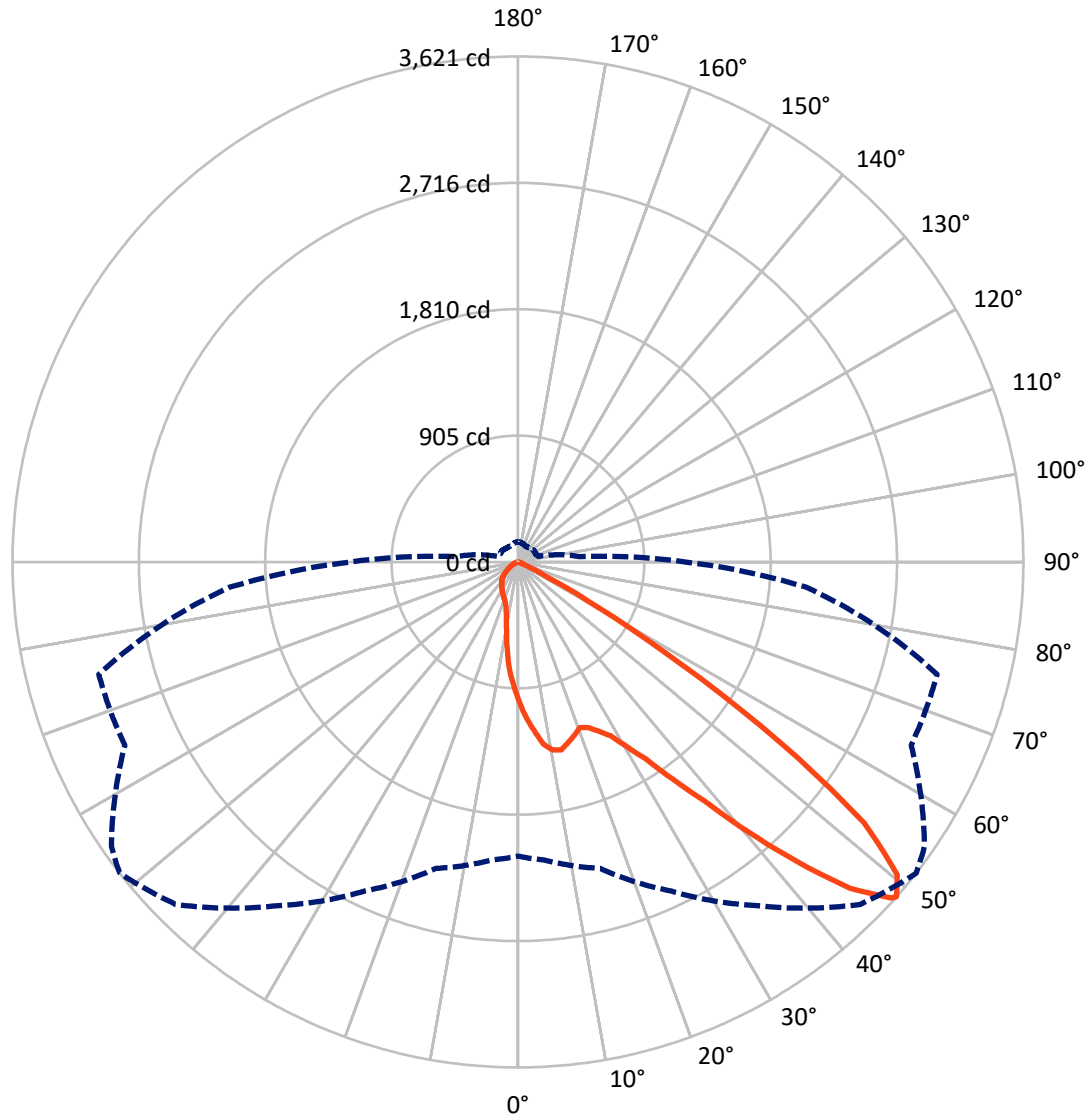
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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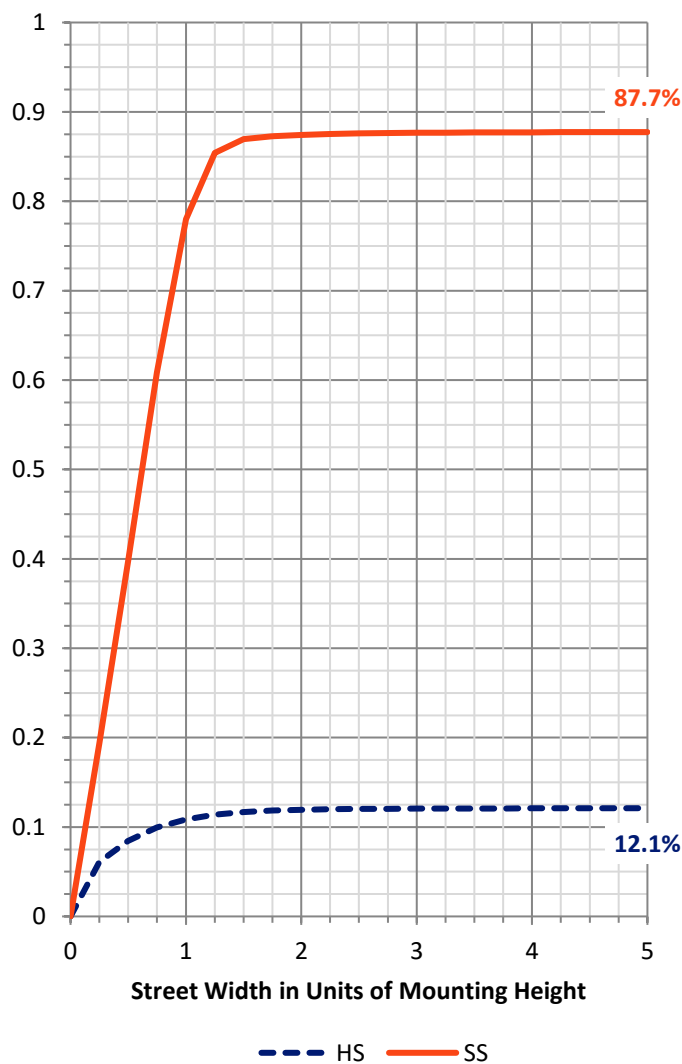
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	420.3	0.0	420.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	3031.7	0.0	3031.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	3452.0	0.0	3452.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	2.6
10°-20°	238.4	6.9
20°-30°	407.1	11.8
30°-40°	749.7	21.7
40°-50°	1164.3	33.7
50°-60°	700.7	20.3
60°-70°	81.0	2.3
70°-80°	15.7	0.5
80°-90°	3.6	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°	3452.0	100.0
0°-180°	3452.0	100.0

Coefficient of Utilization



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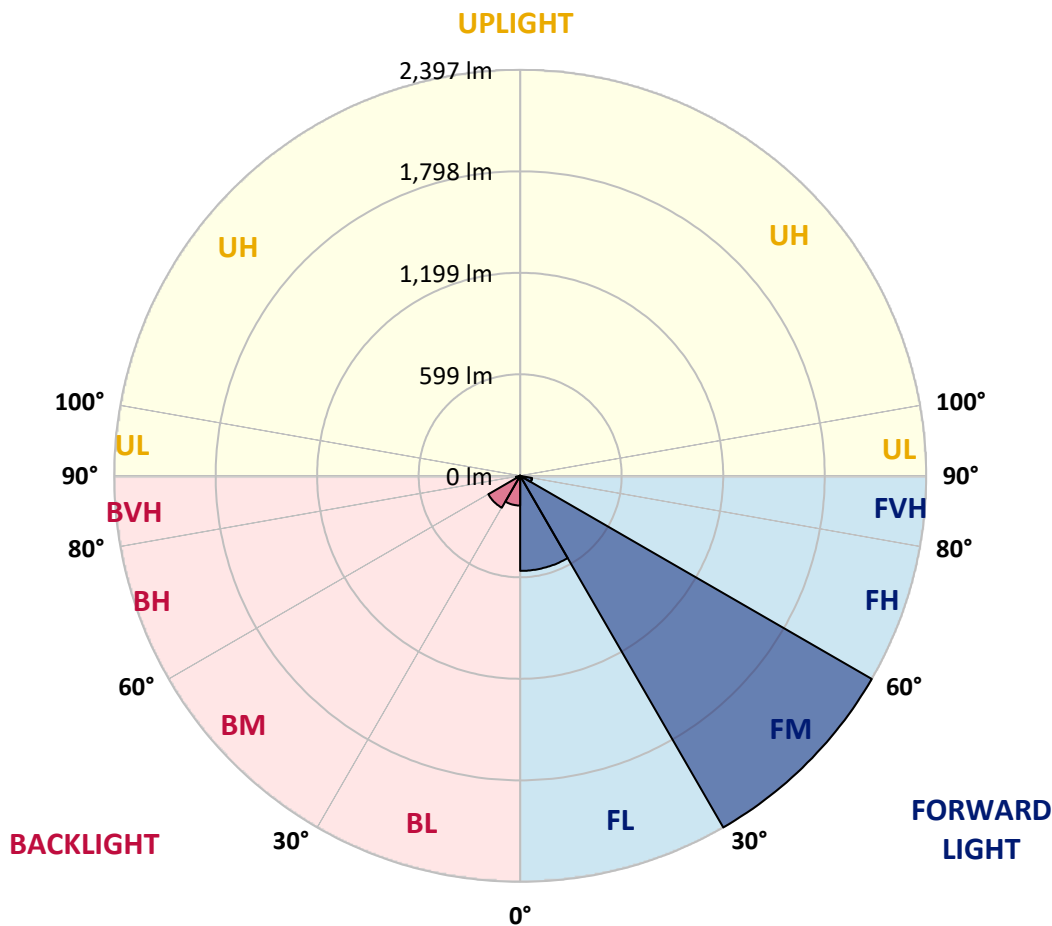
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	561.3	16.3			
FM (30°-60°)	2397.3	69.4			
FH (60°-80°)	71.4	2.1			G0/660
FVH (80°-90°)	1.7	0.0			G0/10
BL (0°-30°)	175.6	5.1	B1/500		
BM (30°-60°)	217.5	6.3	B0/220		
BH (60°-80°)	25.4	0.7	B0/110		G0/110
BVH (80°-90°)	1.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	996.9	996.9	996.9	996.9	996.9	996.9	996.9	996.9	996.9	996.9	996.9
2.5°	1208.2	1180.6	1183.1	1165.0	1154.4	1137.3	1114.1	1109.6	1084.4	1050.2	1015.5
5°	1316.9	1310.4	1318.9	1292.8	1293.8	1265.6	1211.3	1212.3	1154.4	1098.5	1044.7
7.5°	1324.0	1308.9	1317.4	1340.6	1354.2	1349.1	1318.4	1291.8	1236.9	1154.9	1076.4
10°	1185.6	1214.3	1223.3	1261.6	1315.9	1373.3	1369.8	1371.3	1325.5	1218.3	1103.6
12.5°	1102.6	1083.4	1114.1	1137.3	1219.3	1330.5	1381.3	1392.4	1395.9	1279.7	1130.7
15°	1064.8	1064.8	1069.8	1076.4	1135.8	1238.4	1342.1	1374.3	1450.3	1360.2	1173.5
17.5°	1088.5	1087.5	1094.5	1080.9	1103.1	1182.1	1305.9	1342.6	1511.2	1439.2	1207.2
20°	1160.4	1163.9	1159.4	1120.2	1121.7	1181.1	1265.6	1323.5	1552.4	1507.6	1252.0
22.5°	1260.6	1262.6	1236.9	1194.1	1181.6	1210.7	1288.7	1333.0	1585.6	1589.7	1265.6
25°	1376.3	1368.3	1363.2	1302.8	1264.6	1289.8	1341.1	1366.7	1606.3	1660.1	1304.3
27.5°	1536.8	1520.7	1490.0	1436.2	1408.0	1372.3	1409.0	1451.3	1665.2	1758.8	1346.6
30°	1773.9	1759.8	1699.9	1630.4	1556.5	1521.2	1532.8	1556.0	1771.3	1873.0	1402.5
32.5°	2130.6	2100.9	2014.4	1882.0	1781.4	1684.3	1681.3	1705.9	1866.4	2031.0	1468.9
35°	2523.7	2514.6	2387.3	2250.9	2056.2	1906.2	1908.7	1921.8	2048.6	2238.3	1556.0
37.5°	2784.8	2834.6	2753.6	2607.2	2443.6	2229.3	2174.9	2179.4	2298.7	2483.9	1713.0
40°	2986.6	2944.3	2953.9	2919.7	2808.0	2662.0	2541.8	2518.1	2588.1	2755.6	1869.0
42.5°	2898.6	2900.6	2959.4	3040.5	3068.1	3057.6	2934.8	2890.0	2835.6	2978.1	2017.4
45°	2650.0	2701.8	2778.3	2992.7	3180.9	3357.5	3333.3	3258.9	3006.7	3154.2	2103.0
47.5°	2253.4	2251.4	2376.7	2655.5	3073.7	3487.3	3597.0	3544.7	3128.0	3134.6	2085.3
48°	2107.0	2143.2	2272.5	2600.6	3005.7	3468.2	3620.7	3554.8	3107.4	3108.4	2070.3
50°	1557.5	1550.9	1712.0	2114.5	2684.7	3258.9	3521.0	3572.4	3106.9	2976.0	1964.6
52.5°	822.8	850.9	968.2	1329.5	1898.1	2667.1	3105.9	3185.9	2997.2	2759.7	1812.6
55°	349.7	316.0	406.1	600.3	1067.8	1781.9	2278.6	2456.7	2534.2	2442.1	1585.6
57.5°	124.8	136.4	157.0	225.9	448.9	975.2	1358.7	1497.1	1755.7	1792.0	1080.4
60°	80.0	81.5	88.1	103.7	168.6	375.9	644.6	754.8	872.1	900.3	504.2
62.5°	61.9	62.4	65.4	67.9	80.0	145.9	242.0	286.8	297.9	256.1	132.3
65°	51.8	52.3	53.3	53.3	56.9	68.4	84.5	93.1	90.6	89.6	75.0
67.5°	39.8	40.8	42.8	42.8	44.8	41.8	46.8	49.8	56.4	68.4	63.9
70°	31.2	31.7	33.2	34.2	34.2	30.2	33.7	36.7	41.3	50.8	50.3
72.5°	24.2	25.2	26.2	26.2	24.7	20.6	24.2	26.7	29.7	35.2	34.2
75°	18.6	18.6	19.1	15.6	12.1	10.6	14.6	17.6	22.1	23.1	19.1
77.5°	5.0	5.5	5.0	4.5	5.0	7.5	9.6	11.1	14.1	14.1	12.6
80°	0.0	0.5	1.5	3.0	5.0	7.0	8.6	9.6	11.1	12.1	11.6
82.5°	0.0	0.5	1.5	3.0	4.5	5.5	7.5	8.1	9.1	10.6	10.6
85°	0.0	0.5	1.0	2.0	3.0	3.5	3.5	3.0	3.0	2.5	2.0
87.5°	0.0	0.0	0.5	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5
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°	996.9	996.9	996.9	996.9	996.9	996.9	996.9	996.9	996.9	996.9	996.9
2.5°	1001.9	986.3	962.7	925.4	889.7	866.5	844.4	819.7	806.2	805.2	797.6
5°	1014.0	978.8	922.4	858.5	790.1	731.2	671.8	633.1	598.3	579.2	575.7
7.5°	1020.5	974.7	883.7	776.5	659.7	563.6	497.2	448.4	429.2	415.2	414.7
10°	1034.1	967.7	825.8	667.8	523.3	426.2	380.4	358.3	347.7	343.7	337.7
12.5°	1044.2	954.6	766.4	556.1	413.6	353.3	333.1	328.1	328.6	330.6	328.1
15°	1058.3	943.0	686.4	456.4	347.2	318.0	318.0	319.0	326.1	327.1	326.6
17.5°	1057.3	920.4	603.9	375.9	307.0	302.9	304.4	314.0	318.5	320.0	316.5
20°	1069.3	899.3	518.8	321.1	284.3	290.4	300.4	302.9	308.5	309.5	305.5
22.5°	1065.8	846.4	439.8	277.8	267.2	278.8	288.8	291.9	290.4	287.3	286.8
25°	1059.3	801.1	367.4	249.1	254.6	267.2	276.8	271.2	268.2	268.7	269.2
27.5°	1047.7	743.8	307.5	229.0	237.5	256.1	255.6	253.6	256.6	254.1	256.6
30°	1045.7	686.4	258.2	210.8	224.9	238.5	239.5	243.1	246.6	242.0	246.6
32.5°	1048.7	623.5	222.9	199.8	217.4	217.9	229.0	232.5	230.0	219.9	220.9
35°	1071.9	575.2	197.3	193.7	205.3	205.8	216.4	211.9	200.8	194.7	198.3
37.5°	1120.7	534.9	185.2	188.2	189.2	195.8	196.3	187.2	188.2	187.7	189.7
40°	1183.1	504.2	176.6	183.2	182.2	186.7	168.6	173.6	178.1	179.6	180.7
42.5°	1225.8	482.1	171.1	175.1	173.1	165.1	155.0	160.0	163.5	169.1	170.1
45°	1245.0	464.5	164.6	161.0	161.0	146.4	142.4	143.4	151.5	157.5	156.5
47.5°	1213.8	447.4	153.0	142.4	145.9	133.9	129.3	129.3	137.9	145.4	143.9
48°	1201.7	440.3	153.5	138.4	140.9	131.8	127.3	126.3	135.9	142.9	142.9
50°	1141.8	414.2	140.4	127.3	122.3	121.3	118.3	119.3	125.3	131.8	131.8
52.5°	1025.1	357.8	118.8	109.2	100.1	106.2	107.7	105.7	108.7	114.7	114.2
55°	855.5	274.8	95.1	90.6	83.5	90.1	93.1	90.6	87.6	92.1	92.1
57.5°	548.0	147.9	76.0	77.0	69.9	76.5	79.0	73.0	67.4	71.0	70.5
60°	247.1	88.6	62.4	60.9	56.4	63.9	67.9	60.9	53.3	55.9	58.4
62.5°	92.6	62.9	47.3	46.3	45.3	52.3	54.3	48.8	41.3	42.8	43.3
65°	67.9	55.4	37.7	34.2	36.2	41.3	40.3	34.7	29.7	29.7	30.7
67.5°	57.9	48.3	30.7	26.7	26.7	27.2	25.2	22.1	20.6	21.6	22.6
70°	45.3	38.2	24.2	20.6	18.6	16.6	14.6	14.1	12.6	14.1	13.6
72.5°	29.2	25.7	18.6	15.6	14.1	11.6	9.6	9.1	7.5	7.0	7.0
75°	15.6	15.6	14.6	12.6	11.1	9.1	7.5	6.0	4.0	3.0	3.0
77.5°	11.1	12.1	13.1	12.1	10.1	7.5	6.0	4.0	2.0	1.0	1.0
80°	10.6	12.1	13.1	11.6	10.1	7.5	5.5	3.0	1.5	0.5	0.5
82.5°	9.6	11.1	12.1	10.6	9.1	6.5	5.0	3.0	1.5	0.5	0.5
85°	2.0	2.5	3.0	3.0	3.5	4.5	3.5	2.5	1.0	0.5	0.5
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0	0.5	0.5	0.5
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)