

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: P526607

Luminaire Tested: **GALN-SA1C-740-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526607
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-740-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4327 lumens
Efficiency: N/A
Efficacy: 75.9 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

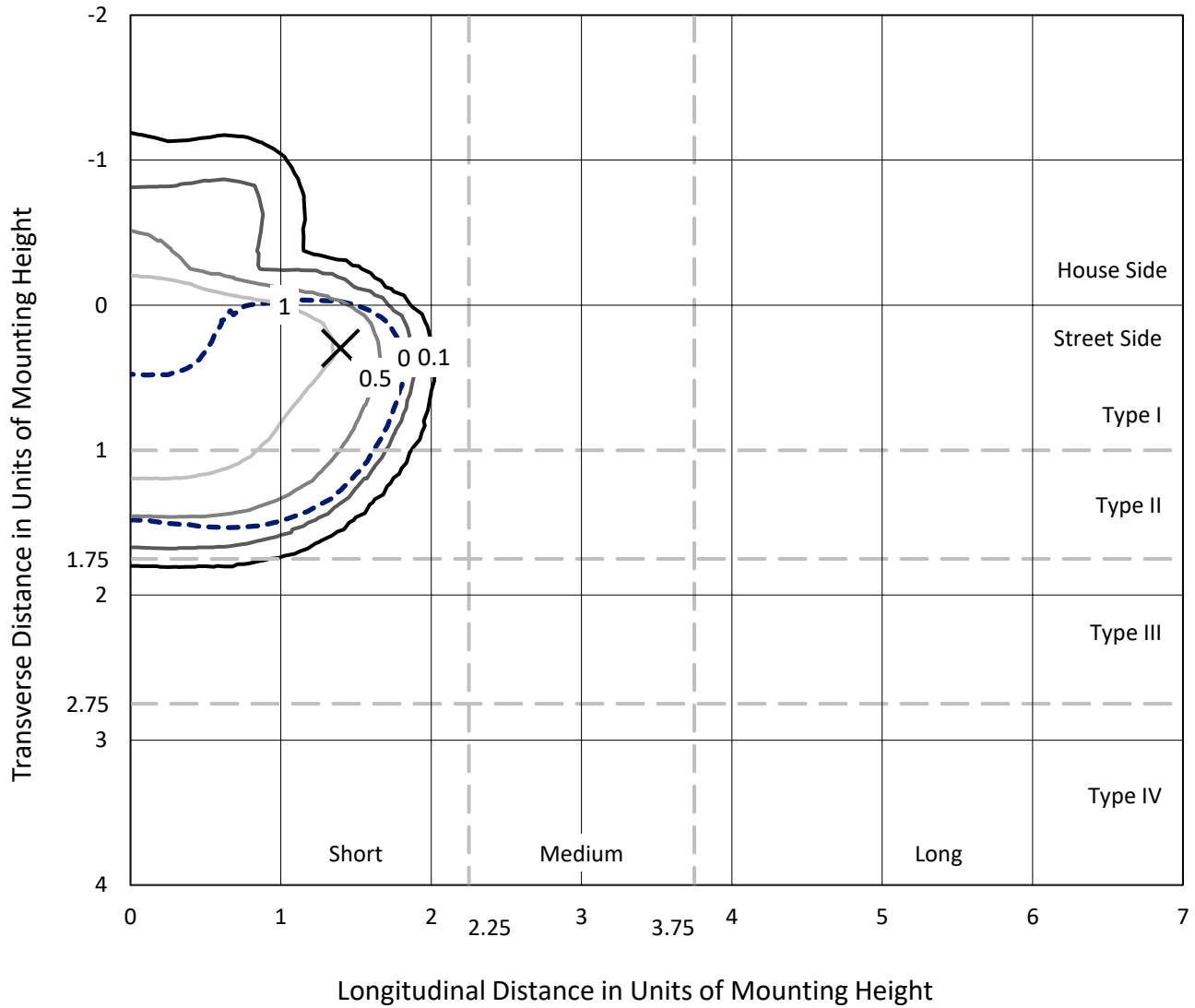
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

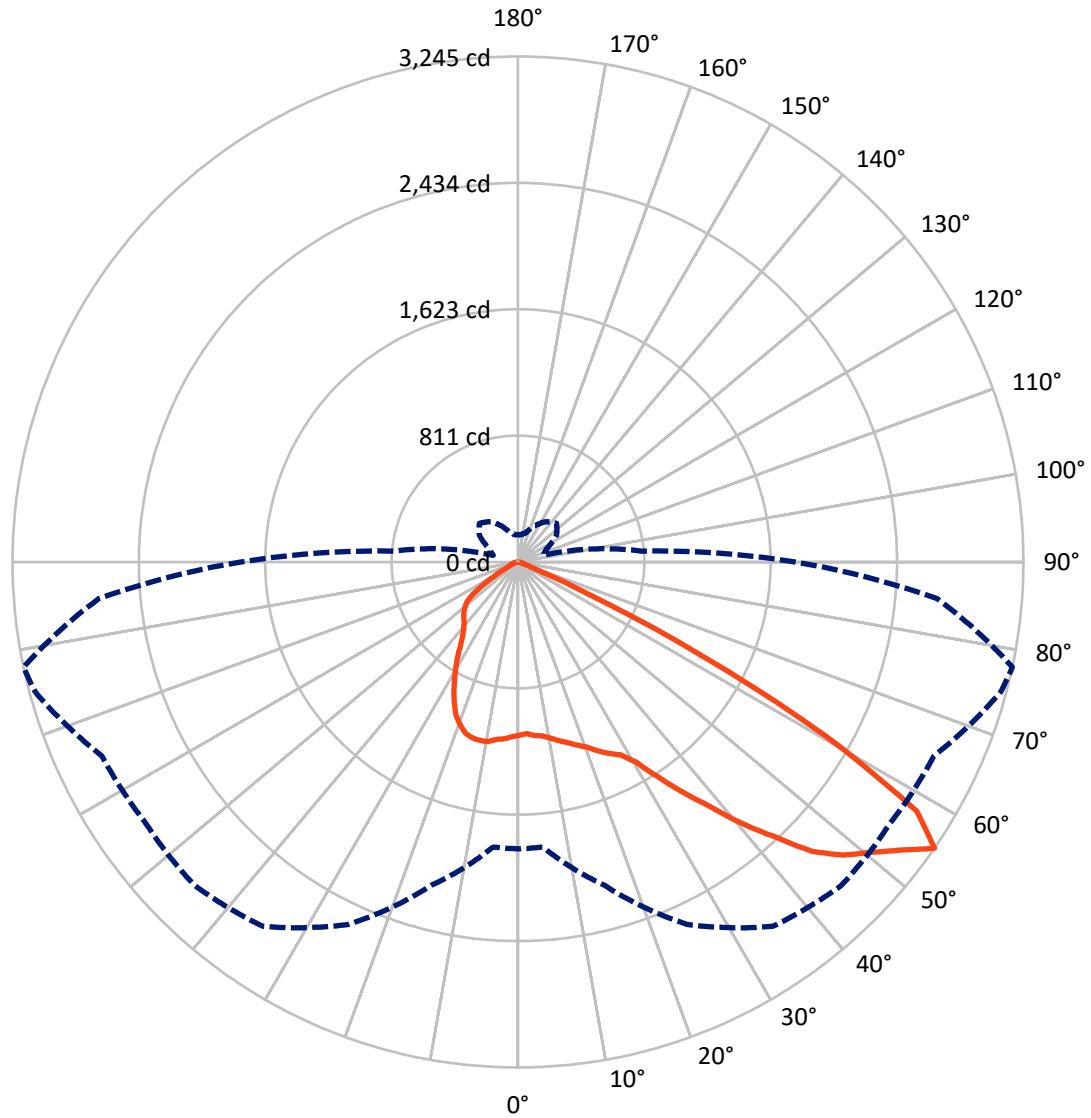
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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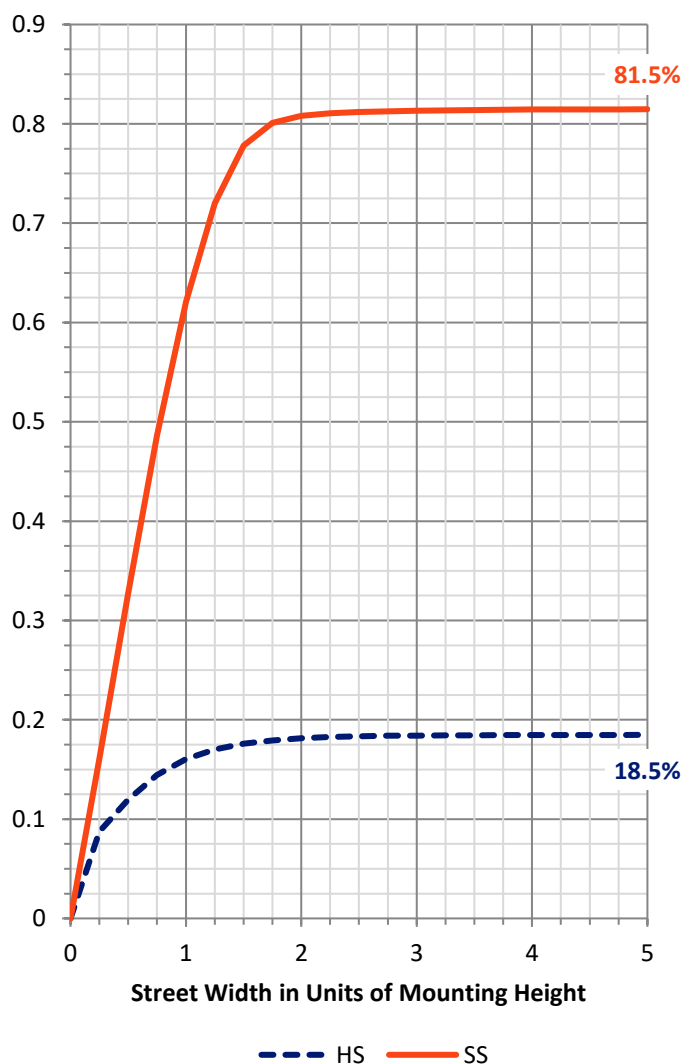
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	803.7	0.0	803.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	3523.3	0.0	3523.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	4327.0	0.0	4327.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	2.3
10°-20°	262.5	6.1
20°-30°	460.2	10.6
30°-40°	758.8	17.5
40°-50°	1104.1	25.5
50°-60°	1251.0	28.9
60°-70°	357.7	8.3
70°-80°	27.8	0.6
80°-90°	5.8	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°	4327.0	100.0
0°-180°	4327.0	100.0

Coefficient of Utilization



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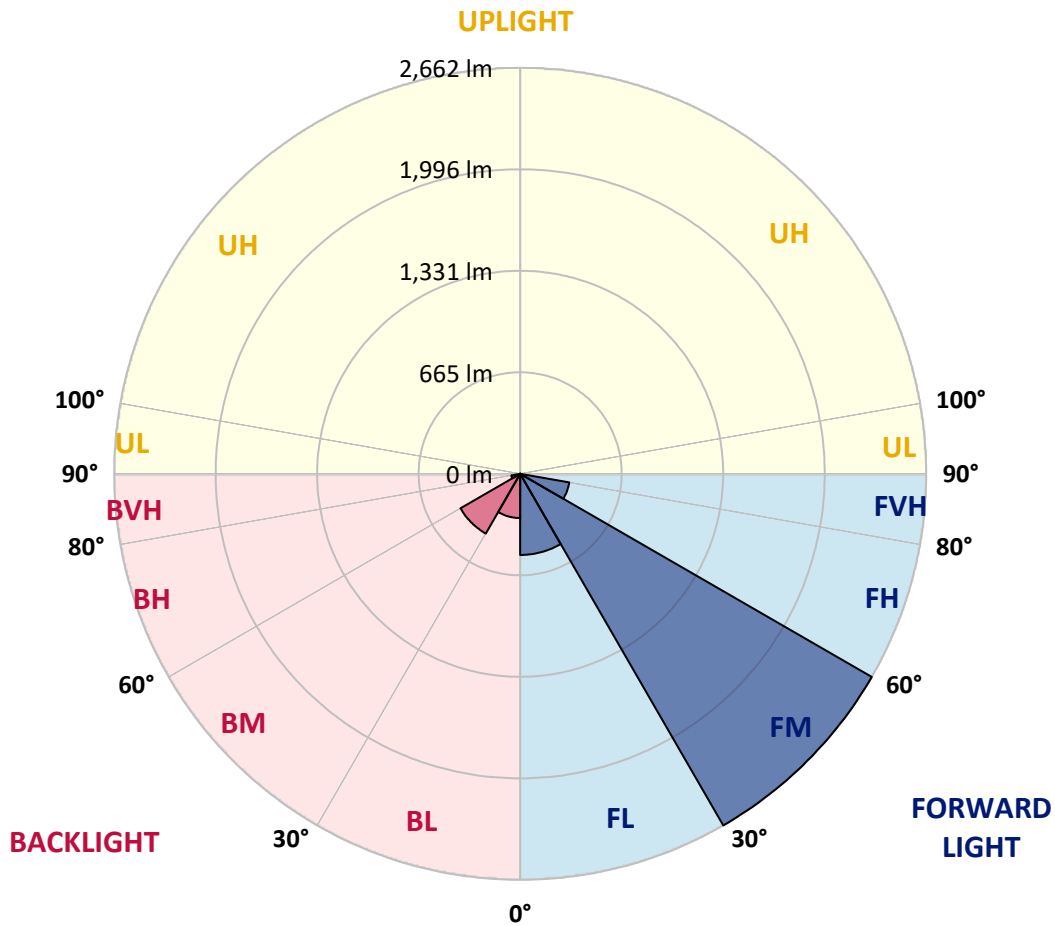
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	531.9	12.3			
FM (30°-60°)	2661.8	61.5			
FH (60°-80°)	326.8	7.6			G0/660
FVH (80°-90°)	2.8	0.1			G0/10
BL (0°-30°)	290.0	6.7	B1/500		
BM (30°-60°)	452.1	10.4	B1/1000		
BH (60°-80°)	58.7	1.4	B0/110		G0/110
BVH (80°-90°)	3.0	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°	55°	65°	75°	78°	85°
0°	1112.5	1112.5	1112.5	1112.5	1112.5	1112.5	1112.5	1112.5	1112.5	1112.5	1112.5
2.5°	1045.9	1056.0	1057.5	1069.9	1069.2	1090.0	1096.2	1097.0	1110.9	1104.0	1121.8
5°	1016.5	1011.1	1008.8	1030.5	1036.7	1055.2	1070.7	1080.0	1108.6	1118.7	1137.2
7.5°	990.2	990.2	991.8	1011.1	1008.8	1032.8	1049.0	1077.7	1119.4	1127.9	1150.4
10°	964.7	955.4	967.0	987.1	1004.2	1015.0	1049.0	1076.1	1124.9	1149.6	1180.6
12.5°	951.6	956.2	957.7	972.4	991.0	1023.5	1042.1	1086.9	1163.5	1178.2	1211.5
15°	1034.3	1025.1	1002.6	989.5	1004.9	1020.4	1066.8	1112.5	1183.6	1204.5	1241.7
17.5°	1130.3	1122.5	1104.0	1068.4	1033.6	1062.2	1098.5	1140.3	1205.3	1236.3	1291.2
20°	1255.6	1243.2	1224.7	1155.0	1124.9	1093.9	1132.6	1182.1	1240.9	1268.7	1325.2
22.5°	1404.9	1404.9	1363.1	1278.8	1216.1	1186.7	1203.0	1231.6	1280.4	1318.3	1374.0
25°	1560.4	1555.8	1517.9	1430.4	1324.4	1289.6	1308.2	1328.3	1341.5	1362.4	1399.5
27.5°	1738.3	1711.3	1663.3	1566.6	1473.0	1405.7	1425.8	1408.0	1391.8	1402.6	1456.0
30°	1859.0	1876.0	1814.9	1722.1	1633.9	1558.9	1562.7	1547.3	1473.0	1488.5	1520.2
32.5°	1984.4	1995.2	1961.1	1910.1	1821.9	1734.5	1702.8	1689.6	1633.9	1640.9	1609.9
35°	2088.8	2109.7	2079.5	2057.1	2031.5	1961.1	1873.7	1916.3	1826.5	1809.5	1729.1
37.5°	2184.7	2178.5	2214.1	2190.9	2185.5	2136.0	2040.1	2048.6	1988.2	1984.4	1891.5
40°	2270.6	2272.1	2320.9	2331.7	2310.0	2221.9	2082.6	2149.9	2198.6	2203.3	2084.1
42.5°	2341.8	2362.7	2404.4	2491.8	2459.4	2312.4	2126.7	2200.2	2381.2	2409.8	2266.7
45°	2403.7	2446.2	2498.0	2576.2	2557.6	2440.8	2236.6	2303.9	2576.2	2651.2	2438.5
47.5°	2407.5	2463.2	2519.7	2635.7	2659.0	2509.6	2350.3	2467.9	2730.9	2812.1	2563.8
50°	2392.1	2421.4	2534.4	2660.5	2713.1	2621.8	2509.6	2605.6	2881.0	2932.0	2627.2
52.5°	2208.7	2231.1	2457.8	2683.7	2810.6	2748.7	2720.8	2797.4	3034.2	3072.1	2686.8
55°	1841.2	1837.4	2149.1	2566.9	2855.5	2936.7	2919.7	2946.7	3211.3	3245.4	2701.5
57.5°	1259.5	1329.9	1599.1	2137.5	2580.8	2892.6	2910.4	2865.5	3004.8	3017.9	2354.9
60°	679.2	708.6	925.3	1426.6	1965.0	2357.2	2403.7	2322.4	2311.6	2274.5	1681.1
62.5°	270.0	284.7	407.7	706.3	1070.7	1432.8	1532.6	1499.3	1428.1	1330.6	870.3
65°	128.4	137.7	202.7	330.3	475.0	597.2	697.0	728.0	536.9	483.5	287.0
67.5°	87.4	94.4	147.8	188.8	169.4	177.2	230.5	214.3	126.1	107.5	79.7
70°	66.5	71.2	118.4	128.4	75.8	53.4	59.6	55.7	51.8	52.6	51.8
72.5°	47.2	51.1	86.6	75.8	33.3	24.8	31.7	37.9	37.9	37.9	37.1
75°	28.6	32.5	50.3	29.4	13.2	13.2	20.1	25.5	27.1	27.9	26.3
77.5°	14.7	18.6	17.0	8.5	8.5	10.1	14.7	17.8	19.3	19.3	18.6
80°	3.1	3.1	3.1	4.6	8.5	10.8	14.7	16.2	18.6	18.6	17.0
82.5°	0.0	0.8	2.3	4.6	7.7	10.1	13.9	16.2	18.6	19.3	17.8
85°	0.0	0.8	1.5	3.1	5.4	6.2	5.4	4.6	4.6	4.6	4.6
87.5°	0.0	0.0	0.8	0.8	0.8	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°	1112.5	1112.5	1112.5	1112.5	1112.5	1112.5	1112.5	1112.5	1112.5	1112.5	1112.5
2.5°	1123.3	1125.6	1121.8	1121.0	1117.9	1127.2	1104.7	1099.3	1113.2	1100.1	1103.2
5°	1138.0	1143.4	1136.5	1124.9	1107.8	1081.5	1059.1	1029.7	1015.8	1005.7	1004.2
7.5°	1148.8	1152.7	1145.7	1108.6	1057.5	991.0	941.5	905.1	876.5	868.0	854.1
10°	1192.9	1193.7	1158.9	1076.9	977.1	889.7	813.9	758.2	729.5	711.7	704.0
12.5°	1222.3	1220.8	1150.4	1014.2	881.2	765.1	678.5	611.2	584.9	576.4	570.9
15°	1259.5	1251.0	1130.3	950.0	757.4	632.1	553.9	507.5	505.2	499.8	505.2
17.5°	1288.9	1264.9	1100.9	833.2	639.0	520.7	469.6	472.7	478.9	484.3	485.1
20°	1336.8	1287.3	1033.6	731.1	529.2	446.4	445.6	459.5	475.0	481.2	487.4
22.5°	1373.2	1296.6	961.6	622.0	439.4	416.2	429.4	450.3	461.9	468.0	477.3
25°	1386.3	1271.1	865.7	512.9	396.1	402.3	422.4	436.3	451.0	458.0	454.1
27.5°	1399.5	1257.9	751.2	422.4	372.9	393.0	410.0	423.9	428.6	437.9	444.1
30°	1431.2	1212.3	648.3	365.2	361.3	386.8	399.2	403.8	416.2	421.6	421.6
32.5°	1456.7	1194.5	539.2	338.1	359.7	389.9	391.5	391.5	393.0	389.1	387.6
35°	1509.3	1133.4	441.7	321.8	359.0	390.7	394.5	381.4	345.8	331.9	328.0
37.5°	1574.3	1093.9	369.8	318.0	364.4	400.0	406.2	356.6	310.2	287.8	283.9
40°	1653.2	1066.1	322.6	316.4	376.8	421.6	403.1	337.3	277.0	244.5	242.9
42.5°	1745.3	1040.5	290.9	315.6	392.2	444.1	400.0	321.1	242.9	221.3	224.4
45°	1818.8	1026.6	269.2	310.2	397.6	457.2	402.3	292.4	229.0	215.1	216.6
47.5°	1876.0	997.2	251.4	300.9	396.9	461.9	381.4	280.8	222.0	225.9	229.8
50°	1877.6	957.7	229.0	280.8	385.3	453.3	357.4	270.0	220.5	236.7	244.5
52.5°	1856.7	902.0	205.0	252.2	358.2	423.9	335.8	265.4	213.5	212.0	221.3
55°	1782.4	797.6	164.8	204.2	302.5	349.7	316.4	256.8	192.6	174.8	176.4
57.5°	1440.5	571.7	121.5	146.2	214.3	256.1	285.5	253.0	173.3	148.5	149.3
60°	892.0	324.1	89.0	99.8	132.3	155.5	231.3	235.2	154.7	125.3	123.8
62.5°	458.0	160.1	68.9	70.4	81.2	91.3	158.6	197.3	140.0	119.1	119.1
65°	153.2	78.9	60.3	54.2	54.2	56.5	95.9	136.9	118.4	99.8	99.8
67.5°	65.8	58.8	52.6	47.2	43.3	41.0	54.2	79.7	88.2	75.8	72.7
70°	51.1	49.5	45.6	39.5	34.0	30.9	31.7	41.0	50.3	48.7	47.2
72.5°	37.9	37.9	36.4	30.9	26.3	22.4	20.9	21.7	24.0	24.8	25.5
75°	26.3	27.1	27.1	24.0	19.3	16.2	13.9	11.6	9.3	7.7	7.0
77.5°	17.8	18.6	20.1	17.8	14.7	10.8	8.5	6.2	3.9	1.5	1.5
80°	15.5	17.8	19.3	17.8	15.5	11.6	8.5	4.6	2.3	0.0	0.0
82.5°	16.2	17.8	20.1	17.0	14.7	10.8	8.5	5.4	2.3	0.8	0.0
85°	3.9	3.9	4.6	5.4	7.0	7.7	6.2	3.9	2.3	0.8	0.0
87.5°	1.5	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.0	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)