

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: P646749

Luminaire Tested: **GALN-SA1C-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646749
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-835-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 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: 3388 lumens
Efficiency: N/A
Efficacy: 59.4 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

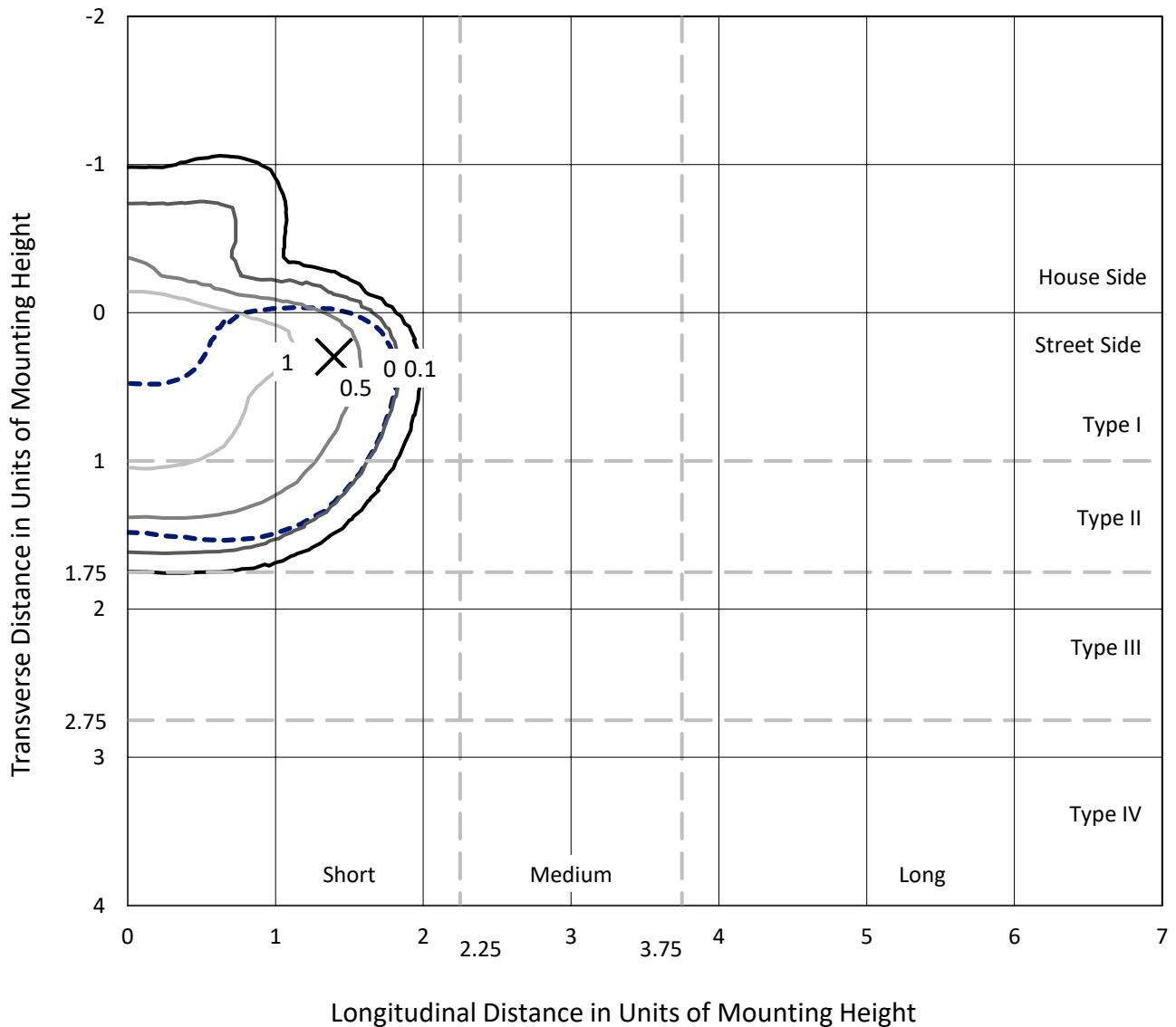
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

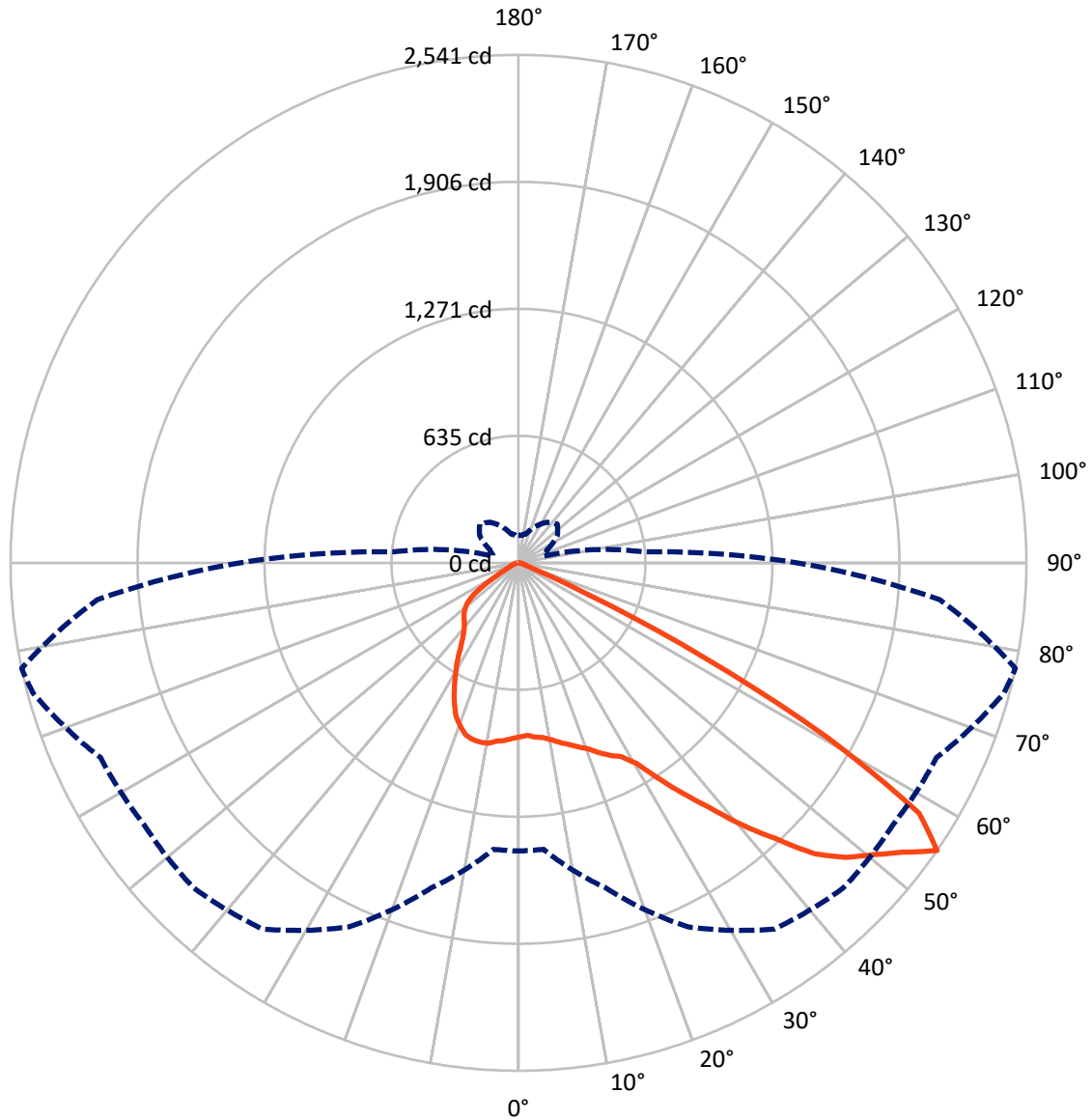
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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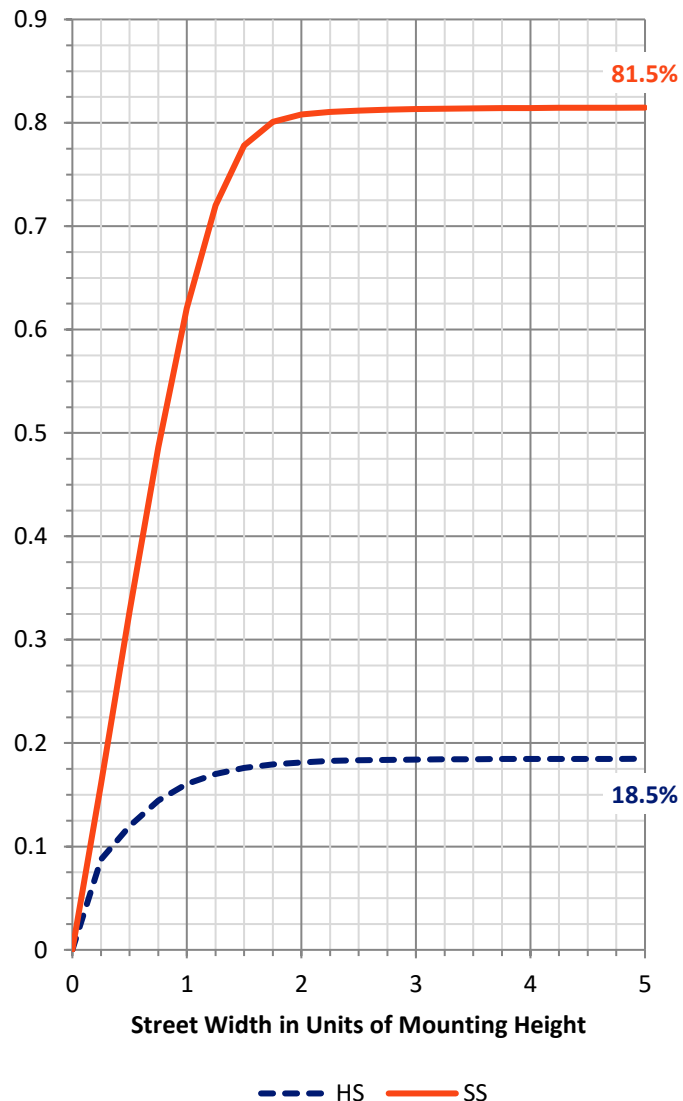
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	629.3	0.0	629.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	2758.7	0.0	2758.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	3388.0	0.0	3388.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	2.3
10°-20°	205.6	6.1
20°-30°	360.3	10.6
30°-40°	594.1	17.5
40°-50°	864.5	25.5
50°-60°	979.6	28.9
60°-70°	280.1	8.3
70°-80°	21.7	0.6
80°-90°	4.5	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°	3388.0	100.0
0°-180°	3388.0	100.0

Coefficient of Utilization

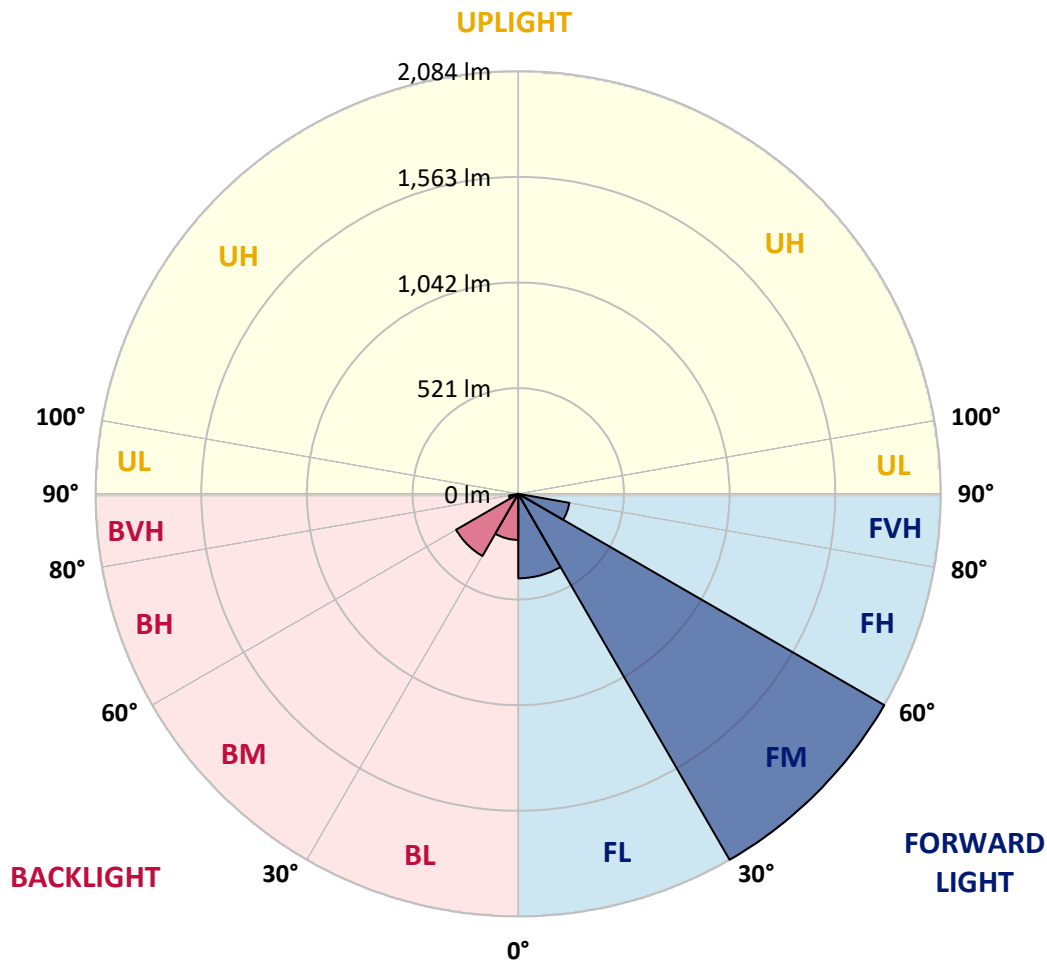


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	416.5	12.3			
FM (30°-60°)	2084.2	61.5			
FH (60°-80°)	255.9	7.6			G0/660
FVH (80°-90°)	2.2	0.1			G0/10
BL (0°-30°)	227.1	6.7	B1/500		
BM (30°-60°)	354.0	10.4	B1/1000		
BH (60°-80°)	45.9	1.4	B0/110		G0/110
BVH (80°-90°)	2.3	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°	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1
2.5°	818.9	826.8	828.0	837.7	837.2	853.5	858.3	859.0	869.8	864.4	878.4
5°	795.9	791.7	789.9	806.9	811.7	826.2	838.4	845.6	868.0	875.9	890.4
7.5°	775.3	775.3	776.6	791.7	789.9	808.7	821.4	843.8	876.5	883.1	900.8
10°	755.4	748.1	757.2	772.9	786.3	794.7	821.4	842.6	880.8	900.1	924.4
12.5°	745.1	748.7	749.9	761.4	776.0	801.4	816.0	851.0	911.0	922.5	948.6
15°	809.9	802.7	785.0	774.8	786.8	799.0	835.3	871.1	926.8	943.1	972.3
17.5°	885.0	878.9	864.4	836.6	809.3	831.7	860.1	892.9	943.7	968.0	1011.0
20°	983.1	973.4	958.9	904.4	880.8	856.5	886.8	925.6	971.6	993.4	1037.6
22.5°	1100.0	1100.0	1067.3	1001.3	952.2	929.2	941.9	964.3	1002.6	1032.2	1075.8
25°	1221.8	1218.2	1188.5	1120.0	1037.0	1009.8	1024.3	1040.1	1050.4	1066.8	1095.8
27.5°	1361.1	1339.9	1302.4	1226.6	1153.4	1100.7	1116.4	1102.5	1089.8	1098.2	1140.0
30°	1455.6	1468.9	1421.1	1348.4	1279.3	1220.6	1223.6	1211.5	1153.4	1165.5	1190.3
32.5°	1553.8	1562.2	1535.5	1495.6	1426.5	1358.1	1333.3	1323.0	1279.3	1284.8	1260.6
35°	1635.5	1651.9	1628.2	1610.7	1590.7	1535.5	1467.1	1500.5	1430.1	1416.8	1353.9
37.5°	1710.6	1705.8	1733.6	1715.5	1711.2	1672.5	1597.4	1604.1	1556.8	1553.8	1481.0
40°	1777.9	1779.1	1817.3	1825.7	1808.7	1739.7	1630.7	1683.4	1721.5	1725.2	1631.9
42.5°	1833.6	1850.0	1882.6	1951.1	1925.7	1810.6	1665.2	1722.8	1864.5	1886.9	1774.8
45°	1882.1	1915.4	1955.9	2017.2	2002.6	1911.1	1751.3	1804.0	2017.2	2075.9	1909.3
47.5°	1885.1	1928.7	1972.9	2063.8	2082.0	1965.0	1840.3	1932.4	2138.3	2201.9	2007.5
50°	1873.0	1896.0	1984.4	2083.2	2124.4	2052.9	1965.0	2040.2	2255.8	2295.8	2057.1
52.5°	1729.4	1747.0	1924.5	2101.3	2200.7	2152.2	2130.4	2190.4	2375.8	2405.5	2103.8
55°	1441.7	1438.7	1682.7	2009.9	2235.9	2299.4	2286.1	2307.3	2514.4	2541.1	2115.3
57.5°	986.2	1041.3	1252.1	1673.7	2020.8	2264.9	2278.8	2243.7	2352.8	2363.0	1843.9
60°	531.8	554.8	724.5	1117.0	1538.6	1845.7	1882.1	1818.4	1810.0	1780.9	1316.3
62.5°	211.4	222.9	319.2	553.0	838.4	1121.9	1200.0	1174.0	1118.2	1041.9	681.4
65°	100.5	107.8	158.7	258.6	371.9	467.6	545.8	570.0	420.4	378.6	224.7
67.5°	68.4	73.9	115.7	147.8	132.6	138.7	180.5	167.8	98.7	84.2	62.4
70°	52.1	55.7	92.7	100.5	59.4	41.8	46.7	43.6	40.6	41.2	40.6
72.5°	37.0	40.0	67.8	59.4	26.1	19.4	24.8	29.7	29.7	29.7	29.0
75°	22.4	25.4	39.4	23.0	10.3	10.3	15.7	20.0	21.2	21.8	20.6
77.5°	11.5	14.6	13.3	6.7	6.7	7.9	11.5	13.9	15.1	15.1	14.6
80°	2.4	2.4	2.4	3.6	6.7	8.5	11.5	12.7	14.6	14.6	13.3
82.5°	0.0	0.6	1.8	3.6	6.0	7.9	10.9	12.7	14.6	15.1	13.9
85°	0.0	0.6	1.2	2.4	4.2	4.9	4.2	3.6	3.6	3.6	3.6
87.5°	0.0	0.0	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2
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°	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1
2.5°	879.5	881.3	878.4	877.7	875.3	882.6	865.0	860.8	871.6	861.4	863.8
5°	891.1	895.3	889.9	880.8	867.4	846.8	829.3	806.3	795.4	787.5	786.3
7.5°	899.5	902.6	897.1	868.0	828.0	776.0	737.2	708.7	686.3	679.6	668.8
10°	934.0	934.7	907.4	843.2	765.1	696.6	637.3	593.7	571.2	557.3	551.2
12.5°	957.1	955.9	900.8	794.1	690.0	599.1	531.3	478.6	458.0	451.3	447.0
15°	986.2	979.5	885.0	743.8	593.0	494.9	433.7	397.4	395.6	391.3	395.6
17.5°	1009.2	990.4	862.0	652.4	500.3	407.7	367.7	370.1	375.0	379.2	379.8
20°	1046.7	1008.0	809.3	572.5	414.4	349.5	348.9	359.8	371.9	376.8	381.6
22.5°	1075.2	1015.2	752.9	487.0	344.1	325.9	336.2	352.6	361.7	366.4	373.7
25°	1085.5	995.3	677.8	401.6	310.1	315.0	330.7	341.6	353.1	358.6	355.6
27.5°	1095.8	984.9	588.2	330.7	292.0	307.7	321.0	331.9	335.6	342.9	347.7
30°	1120.6	949.2	507.6	286.0	282.9	302.9	312.6	316.2	325.9	330.1	330.1
32.5°	1140.6	935.3	422.2	264.7	281.6	305.3	306.5	306.5	307.7	304.7	303.5
35°	1181.8	887.5	345.9	252.0	281.1	305.9	308.9	298.6	270.8	259.9	256.8
37.5°	1232.7	856.5	289.6	249.0	285.3	313.2	318.1	279.2	242.9	225.3	222.3
40°	1294.5	834.8	252.6	247.7	295.0	330.1	315.6	264.1	216.9	191.4	190.2
42.5°	1366.6	814.7	227.8	247.1	307.1	347.7	313.2	251.4	190.2	173.3	175.7
45°	1424.1	803.8	210.8	242.9	311.3	358.0	315.0	228.9	179.3	168.4	169.6
47.5°	1468.9	780.8	196.8	235.6	310.8	361.7	298.6	219.9	173.8	176.9	179.9
50°	1470.2	749.9	179.3	219.9	301.7	354.9	279.8	211.4	172.7	185.3	191.4
52.5°	1453.8	706.3	160.5	197.5	280.5	331.9	262.9	207.8	167.2	166.0	173.3
55°	1395.6	624.5	129.0	159.9	236.9	273.8	247.7	201.1	150.8	136.9	138.1
57.5°	1127.9	447.6	95.1	114.5	167.8	200.5	223.5	198.1	135.7	116.3	116.9
60°	698.4	253.8	69.7	78.1	103.6	121.8	181.1	184.2	121.1	98.1	96.9
62.5°	358.6	125.4	53.9	55.1	63.6	71.5	124.2	154.5	109.6	93.3	93.3
65°	120.0	61.8	47.2	42.4	42.4	44.2	75.1	107.2	92.7	78.1	78.1
67.5°	51.5	46.0	41.2	37.0	33.9	32.1	42.4	62.4	69.1	59.4	56.9
70°	40.0	38.8	35.7	30.9	26.6	24.2	24.8	32.1	39.4	38.1	37.0
72.5°	29.7	29.7	28.5	24.2	20.6	17.5	16.4	17.0	18.8	19.4	20.0
75°	20.6	21.2	21.2	18.8	15.1	12.7	10.9	9.1	7.3	6.0	5.5
77.5°	13.9	14.6	15.7	13.9	11.5	8.5	6.7	4.9	3.1	1.2	1.2
80°	12.1	13.9	15.1	13.9	12.1	9.1	6.7	3.6	1.8	0.0	0.0
82.5°	12.7	13.9	15.7	13.3	11.5	8.5	6.7	4.2	1.8	0.6	0.0
85°	3.1	3.1	3.6	4.2	5.5	6.0	4.9	3.1	1.8	0.6	0.0
87.5°	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	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)