

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: P526240

Luminaire Tested: **GALN-SA1A-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526240
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-SA1A-830-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3231 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

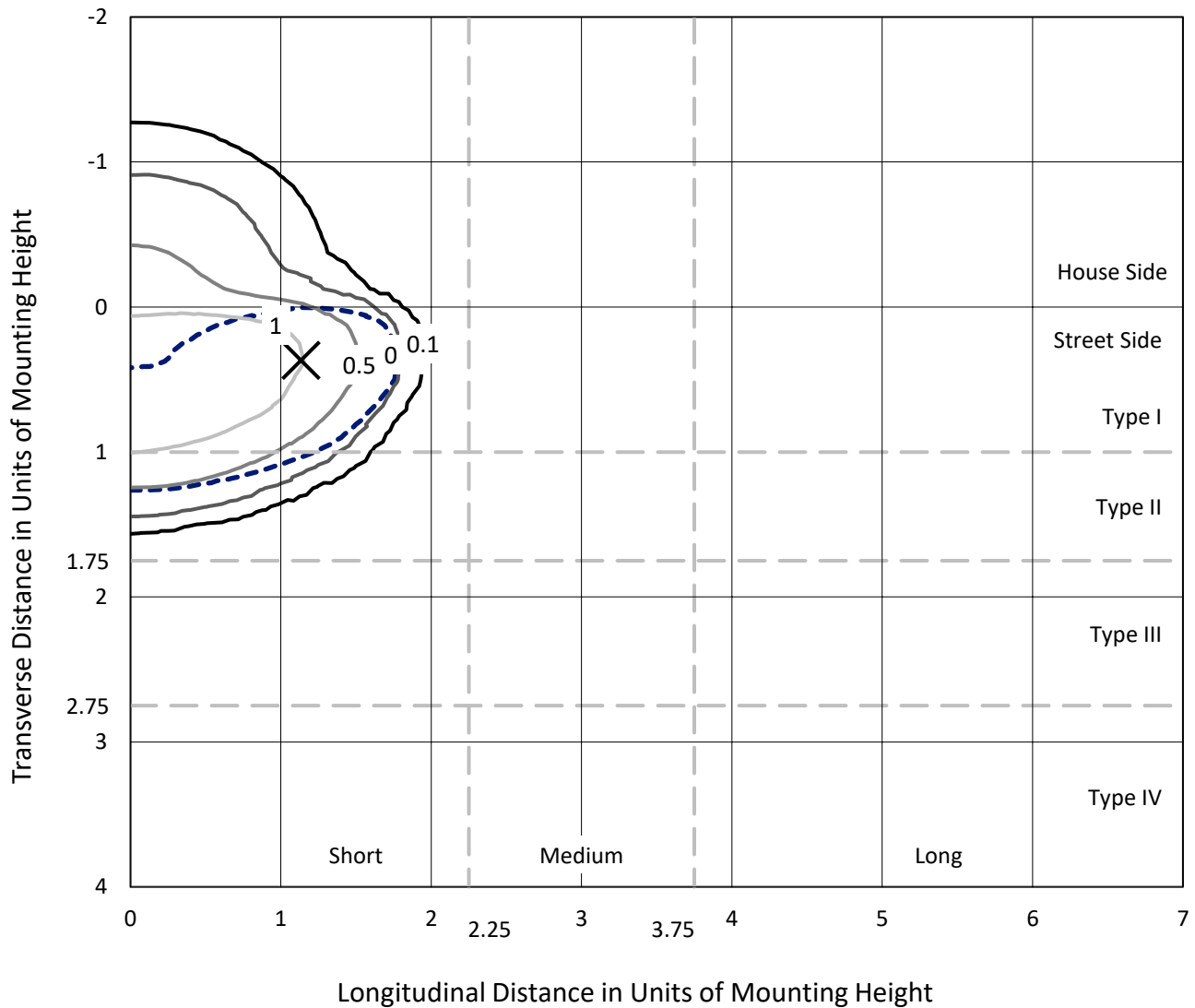


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Iso-Footcandle Lines of Horizontal Illumination

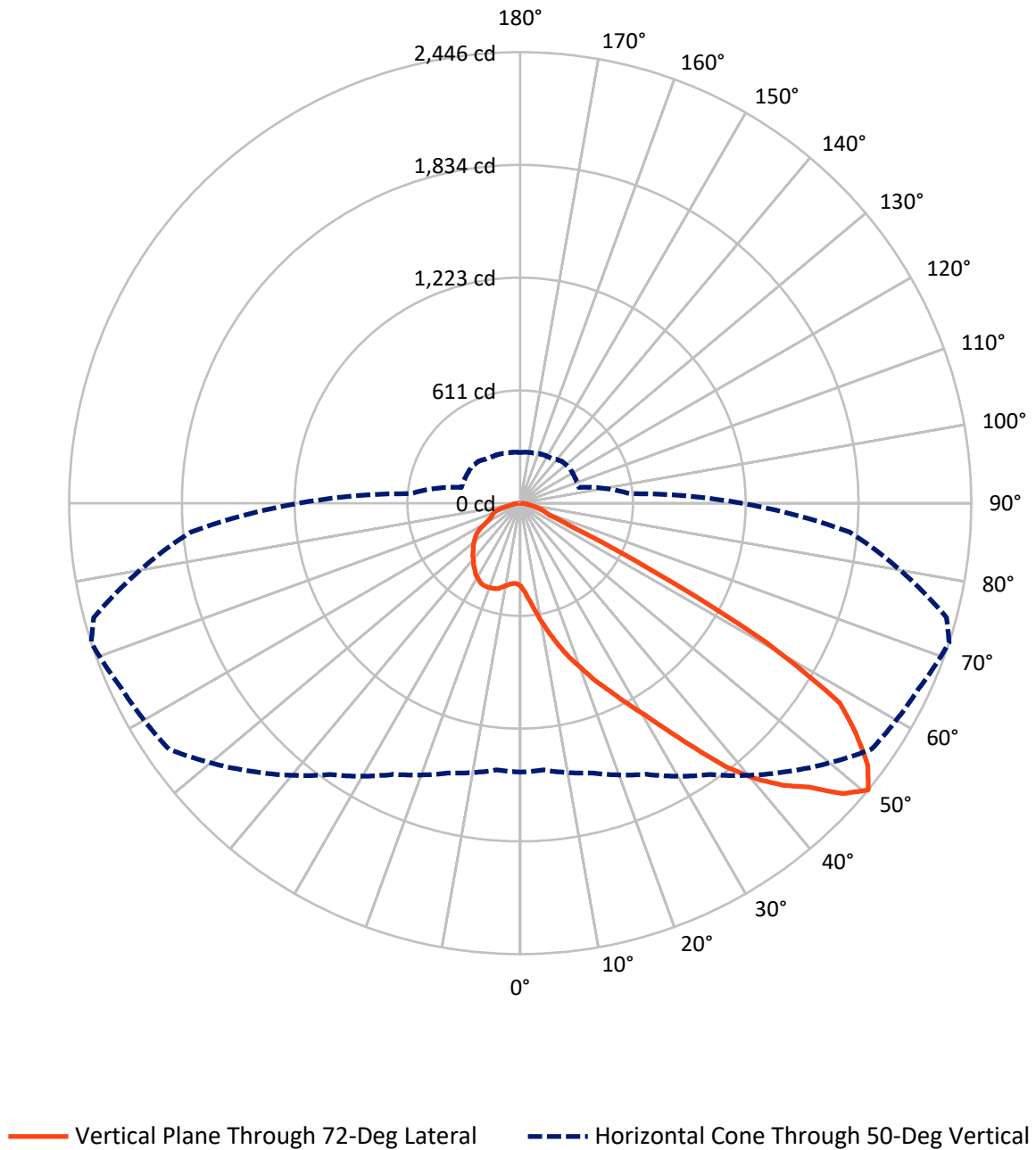
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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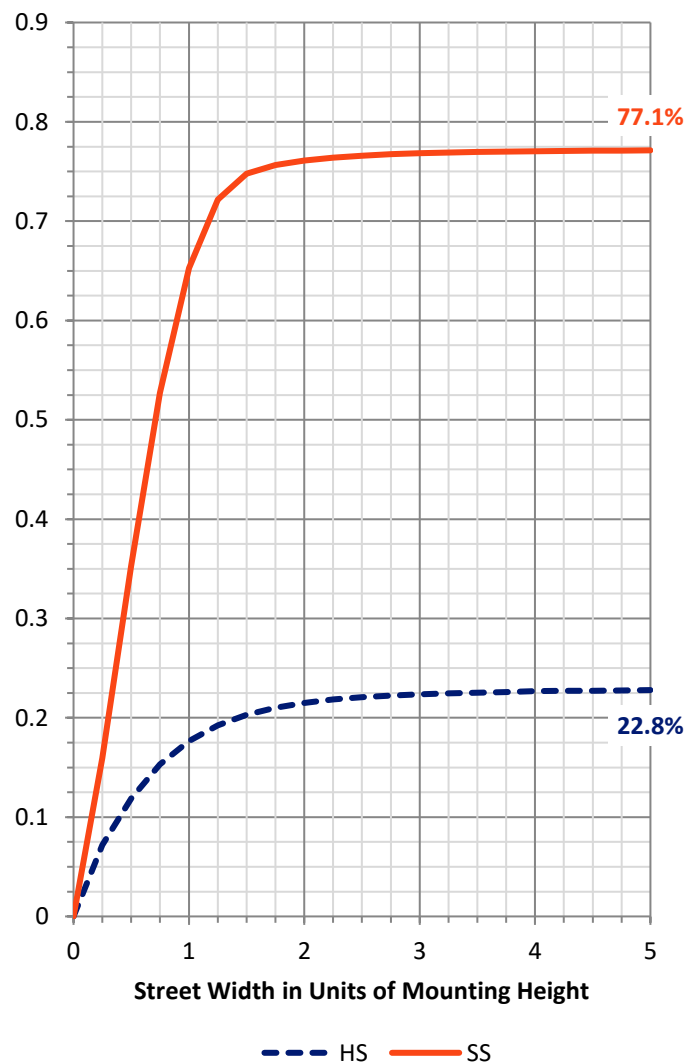
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	740.2	0.0	740.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	2490.8	0.0	2490.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	3231.0	0.0	3231.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.9	1.6
10°-20°	197.8	6.1
20°-30°	383.5	11.9
30°-40°	635.3	19.7
40°-50°	888.9	27.5
50°-60°	749.9	23.2
60°-70°	228.6	7.1
70°-80°	80.2	2.5
80°-90°	13.9	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°	3231.0	100.0
0°-180°	3231.0	100.0

Coefficient of Utilization



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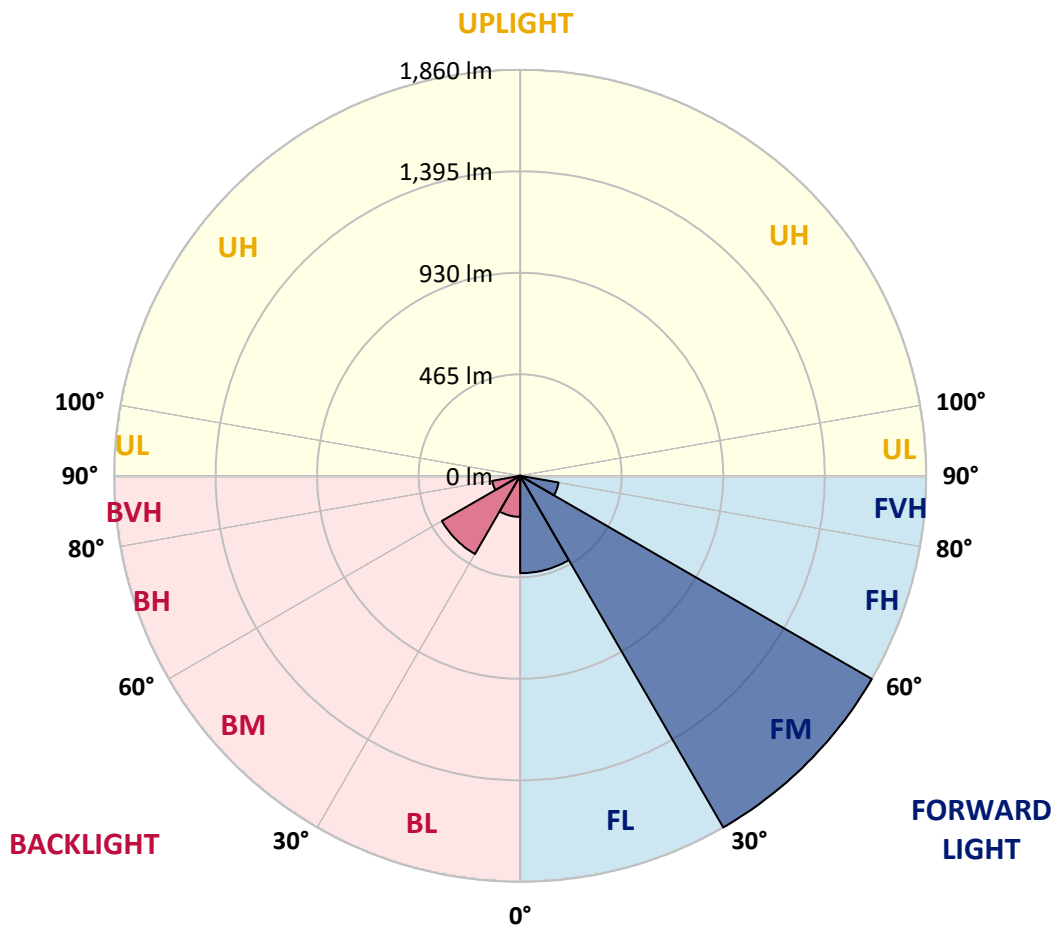
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	446.0	13.8			
FM	(30°-60°)	1860.2	57.6			
FH	(60°-80°)	178.3	5.5			G0/660
FVH	(80°-90°)	6.2	0.2			G0/10
BL	(0°-30°)	188.2	5.8	B1/500		
BM	(30°-60°)	414.0	12.8	B1/1000		
BH	(60°-80°)	130.4	4.0	B1/500		G1/500
BVH	(80°-90°)	7.7	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8
2.5°	578.5	574.9	564.1	560.5	547.7	524.5	516.6	493.0	483.0	473.8	463.0
5°	731.6	714.9	713.7	693.3	663.7	646.5	595.3	560.9	529.3	513.4	483.8
7.5°	829.2	829.6	829.6	812.8	789.2	745.6	699.7	637.7	590.1	566.5	516.2
10°	922.0	914.0	909.6	908.0	892.0	849.6	800.4	723.7	658.5	630.9	540.5
12.5°	987.5	980.7	990.7	985.5	973.9	946.3	900.0	812.4	730.8	693.7	579.7
15°	1018.7	1023.5	1031.5	1045.9	1040.7	1030.3	979.1	903.6	808.8	766.8	614.5
17.5°	1066.7	1053.5	1063.1	1081.1	1095.5	1090.7	1061.5	969.5	886.0	834.4	661.3
20°	1100.3	1092.7	1097.5	1118.3	1129.1	1156.2	1141.0	1055.9	959.9	905.6	716.5
22.5°	1196.2	1185.0	1169.4	1172.6	1176.6	1195.8	1199.4	1150.6	1045.9	988.3	768.8
25°	1314.6	1304.2	1285.8	1267.0	1255.4	1251.8	1264.2	1225.0	1128.3	1068.7	825.2
27.5°	1444.9	1427.3	1415.7	1376.9	1345.7	1341.0	1335.0	1313.8	1225.8	1161.4	888.8
30°	1571.6	1557.6	1542.1	1480.1	1447.7	1442.5	1412.9	1418.9	1331.8	1260.2	960.7
32.5°	1667.6	1668.8	1633.2	1586.4	1556.0	1528.5	1517.7	1534.9	1467.7	1410.1	1041.1
35°	1745.2	1748.8	1714.8	1672.4	1639.6	1658.8	1654.0	1662.0	1630.0	1559.6	1134.7
37.5°	1820.7	1802.7	1766.3	1746.0	1728.8	1760.3	1801.1	1807.9	1813.9	1731.2	1243.4
40°	1833.1	1834.7	1813.5	1827.9	1806.3	1853.9	1948.7	1939.9	1964.3	1891.9	1361.3
42.5°	1815.5	1819.1	1827.5	1847.9	1899.9	1957.1	2097.8	2061.8	2091.4	2027.0	1476.1
45°	1786.7	1771.9	1782.3	1859.9	1949.9	2077.0	2234.1	2206.1	2196.5	2142.6	1612.8
47.5°	1649.2	1664.4	1696.8	1792.3	1927.5	2097.8	2330.9	2324.5	2353.3	2315.3	1737.2
50°	1458.5	1452.5	1514.9	1622.4	1796.7	2057.0	2325.7	2383.6	2445.6	2392.8	1792.7
52.5°	1092.3	1124.3	1177.8	1311.4	1560.0	1834.7	2212.1	2308.9	2359.3	2348.1	1748.0
55°	690.5	700.1	732.4	891.2	1115.1	1472.5	1896.3	2120.6	2210.5	2252.5	1706.8
57.5°	335.4	317.4	357.0	484.6	644.1	990.3	1462.5	1847.1	2042.6	2118.6	1617.2
60°	175.1	181.9	197.5	243.1	333.0	514.2	911.6	1231.0	1529.7	1646.4	1225.8
62.5°	145.1	147.5	157.9	180.7	221.5	295.9	465.4	600.1	780.0	885.2	697.3
65°	123.1	124.3	135.5	150.7	176.7	208.3	239.5	250.7	303.5	311.4	247.9
67.5°	102.8	103.9	115.9	130.3	147.1	155.5	163.5	162.7	168.7	166.3	165.9
70°	79.2	80.4	92.8	107.9	116.3	111.5	136.3	141.9	144.3	146.3	149.5
72.5°	57.2	59.6	69.2	80.0	75.6	86.8	112.3	120.7	123.9	125.1	129.1
75°	41.6	42.4	44.8	41.6	48.0	60.4	79.2	89.6	93.6	94.8	100.8
77.5°	18.4	18.8	19.2	24.0	30.8	37.6	47.2	55.6	61.2	62.8	64.4
80°	9.6	10.0	12.4	16.4	22.0	27.6	34.4	39.2	42.8	43.2	44.8
82.5°	6.0	6.4	8.8	11.6	15.6	20.4	25.2	29.2	32.0	32.4	32.8
85°	2.8	3.6	5.2	7.2	10.4	13.2	13.6	11.6	12.4	12.8	12.0
87.5°	0.8	1.2	1.6	1.2	1.6	1.6	2.0	2.4	2.4	2.4	2.8
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°	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8
2.5°	457.0	453.4	439.4	434.2	420.6	423.0	415.8	415.4	413.8	413.4	413.0
5°	468.2	457.0	440.2	427.4	419.8	419.0	413.8	413.8	415.4	416.6	413.8
7.5°	486.6	473.8	445.4	433.4	426.6	425.4	421.8	419.0	422.6	421.4	418.2
10°	507.8	485.4	455.4	445.0	433.8	431.0	431.0	432.2	426.2	428.2	425.0
12.5°	531.3	501.4	468.2	456.2	443.0	441.4	440.6	431.8	435.0	433.4	425.4
15°	561.3	519.7	484.6	464.2	453.0	445.8	435.4	433.8	431.8	427.8	424.2
17.5°	593.7	539.7	492.2	466.6	449.8	444.6	436.6	428.2	422.2	423.0	420.2
20°	621.3	558.1	495.0	469.0	447.4	437.4	425.0	419.8	413.4	413.0	412.6
22.5°	654.1	582.9	499.0	462.6	440.2	429.8	421.4	412.2	407.8	402.2	405.0
25°	693.3	592.5	499.8	459.0	435.0	416.6	412.2	402.2	400.6	392.6	394.2
27.5°	721.7	597.7	493.4	447.8	423.0	409.0	401.0	393.8	391.0	385.0	383.4
30°	759.6	605.7	479.8	433.8	411.0	395.4	390.6	389.0	381.0	374.6	373.8
32.5°	802.8	610.9	471.0	419.4	398.6	386.6	389.0	381.4	371.4	365.8	364.2
35°	837.2	612.9	449.0	403.0	390.2	382.6	379.8	378.2	363.8	358.6	354.6
37.5°	889.6	608.5	430.6	391.4	381.0	378.2	375.8	365.0	348.6	341.0	335.4
40°	950.7	607.3	407.0	375.0	372.2	375.4	368.2	351.4	328.6	320.2	316.2
42.5°	1009.5	615.7	392.2	366.2	362.6	363.8	353.8	328.6	317.4	312.6	306.3
45°	1107.9	633.3	367.8	352.6	351.0	350.2	338.2	311.8	305.5	299.5	298.3
47.5°	1196.6	621.7	352.2	338.6	340.2	335.8	310.3	301.9	294.7	288.7	286.7
50°	1201.8	594.1	330.2	327.8	328.2	320.6	296.3	290.7	281.5	277.5	274.7
52.5°	1174.6	548.9	309.9	310.6	311.8	299.5	279.1	275.1	267.5	261.9	260.3
55°	1098.3	478.6	289.9	293.1	296.3	272.7	266.3	256.3	250.3	242.3	242.7
57.5°	967.5	385.4	261.9	267.1	273.9	247.9	243.1	230.7	221.9	215.5	214.7
60°	648.5	274.3	219.9	221.9	237.1	226.7	226.3	213.9	201.9	196.3	193.1
62.5°	382.6	209.5	189.9	187.9	187.5	193.5	203.5	199.1	183.5	172.7	175.9
65°	200.3	181.1	176.7	169.9	165.9	164.3	171.9	173.9	163.5	151.9	151.1
67.5°	168.3	168.3	164.7	162.3	156.7	149.9	145.1	138.7	137.1	133.9	129.9
70°	153.1	157.1	155.9	150.3	145.5	137.9	125.5	115.1	105.1	101.6	103.9
72.5°	133.5	137.5	137.5	134.7	128.3	116.7	104.7	92.8	84.4	78.0	77.2
75°	102.8	104.7	109.5	106.3	98.0	90.8	78.4	66.0	58.0	52.0	50.8
77.5°	65.6	68.8	68.8	68.4	62.4	55.6	47.6	38.8	32.8	28.4	27.2
80°	43.6	45.6	47.2	45.6	41.6	36.4	30.4	24.4	20.0	16.4	15.6
82.5°	32.0	34.4	35.6	34.0	30.0	26.0	21.6	17.2	12.8	10.0	9.2
85°	12.4	12.8	14.4	17.2	16.8	16.4	13.2	9.6	7.2	5.2	4.8
87.5°	3.2	2.8	3.2	3.2	2.8	2.4	2.4	2.4	2.4	1.2	1.6
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)