

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: P451737

Luminaire Tested: **GALN-SA2C-827-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8549 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

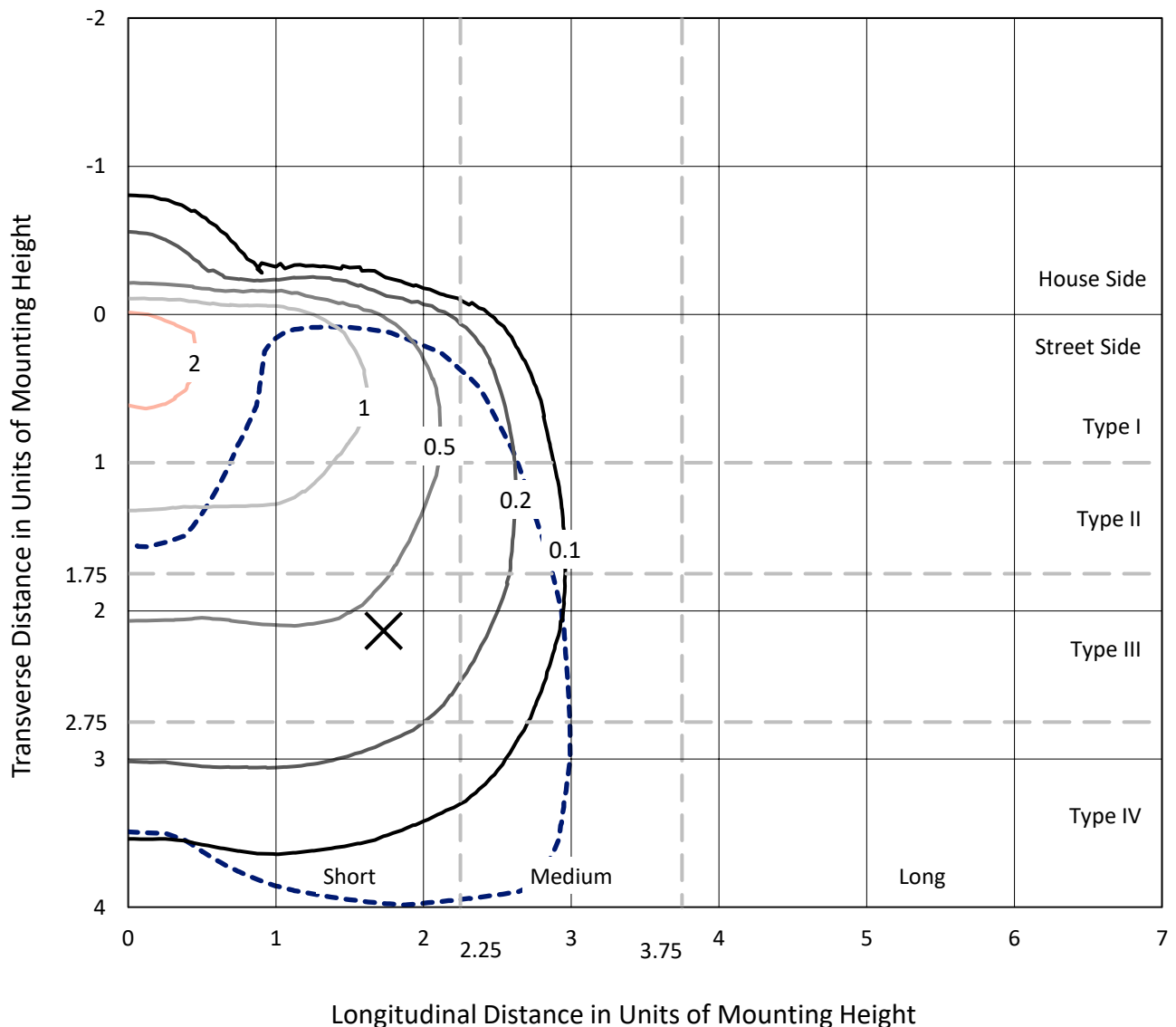
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

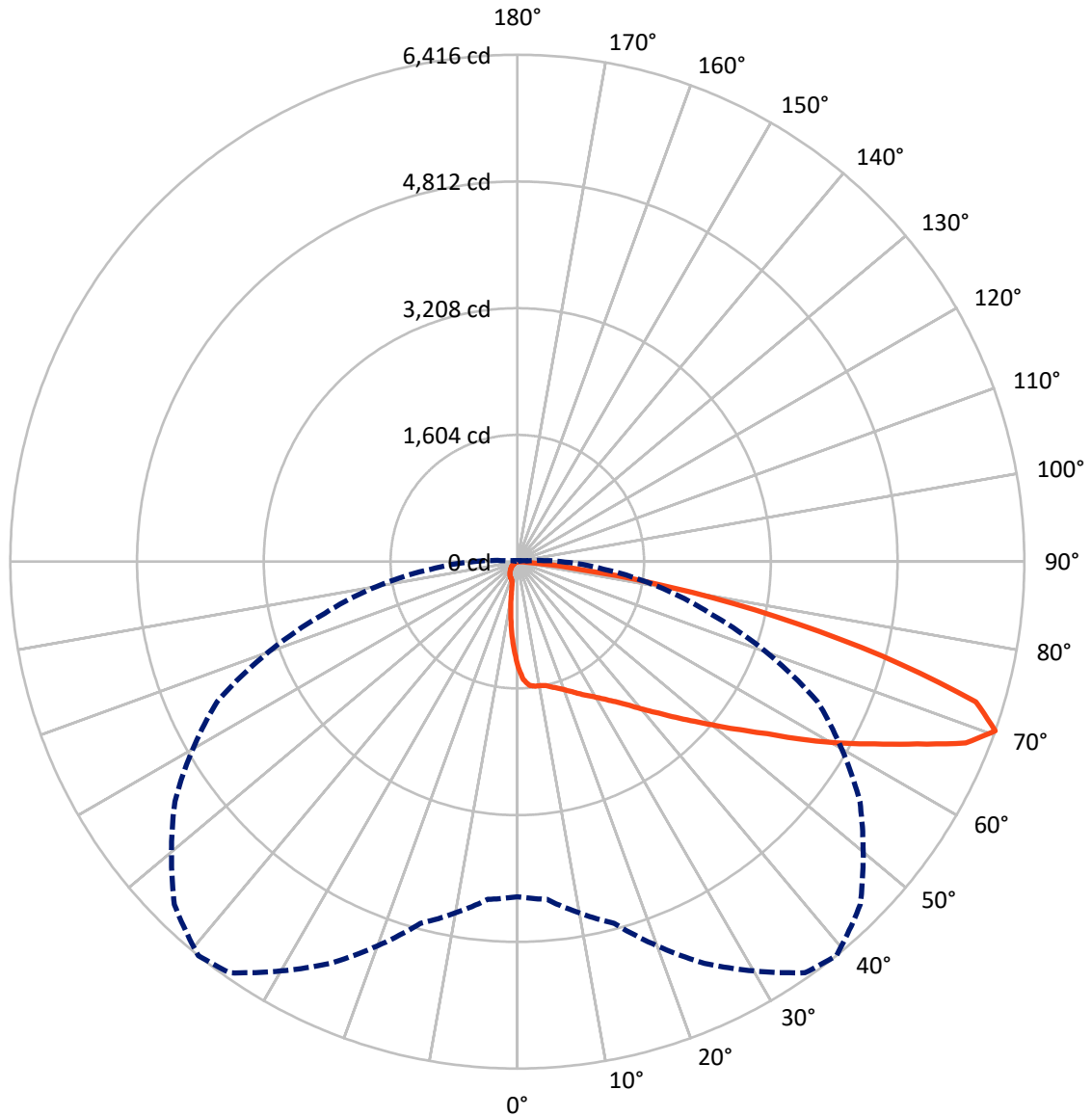
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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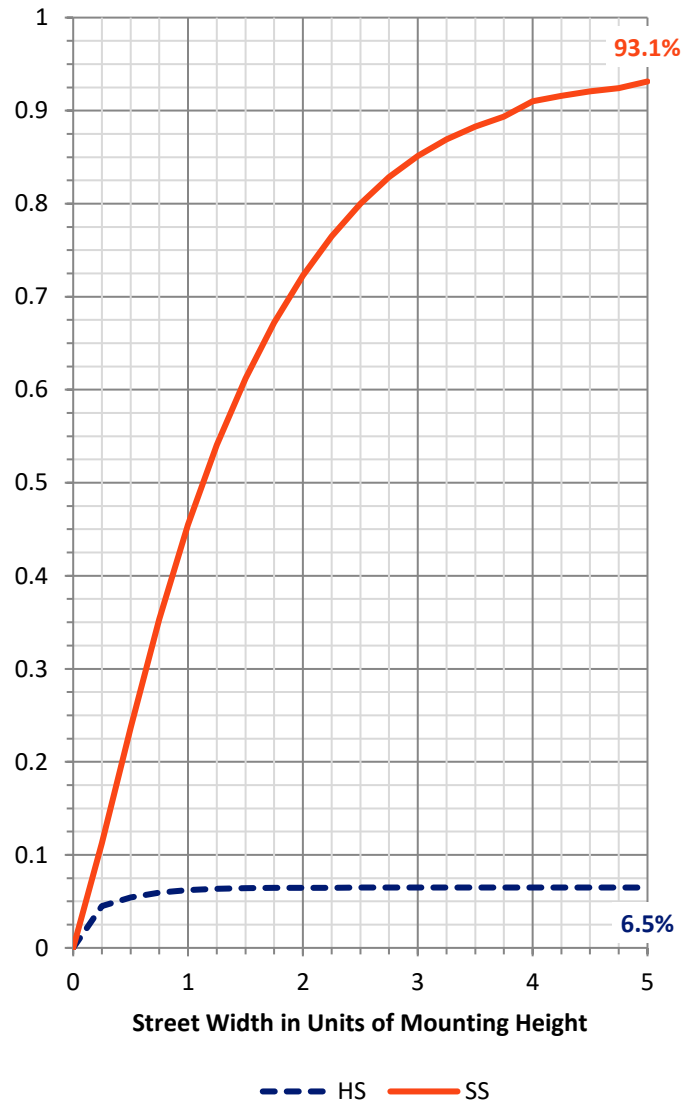
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	557.4	0.0	557.4
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	7991.6	0.0	7991.6
	% Fixture	93.5	0.0	93.5
Total	Lumens	8549.0	0.0	8549.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	1.3
10°-20°	295.7	3.5
20°-30°	495.3	5.8
30°-40°	768.2	9.0
40°-50°	1217.4	14.2
50°-60°	1784.5	20.9
60°-70°	2287.2	26.8
70°-80°	1437.2	16.8
80°-90°	149.7	1.8
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°	8549.0	100.0
0°-180°	8549.0	100.0



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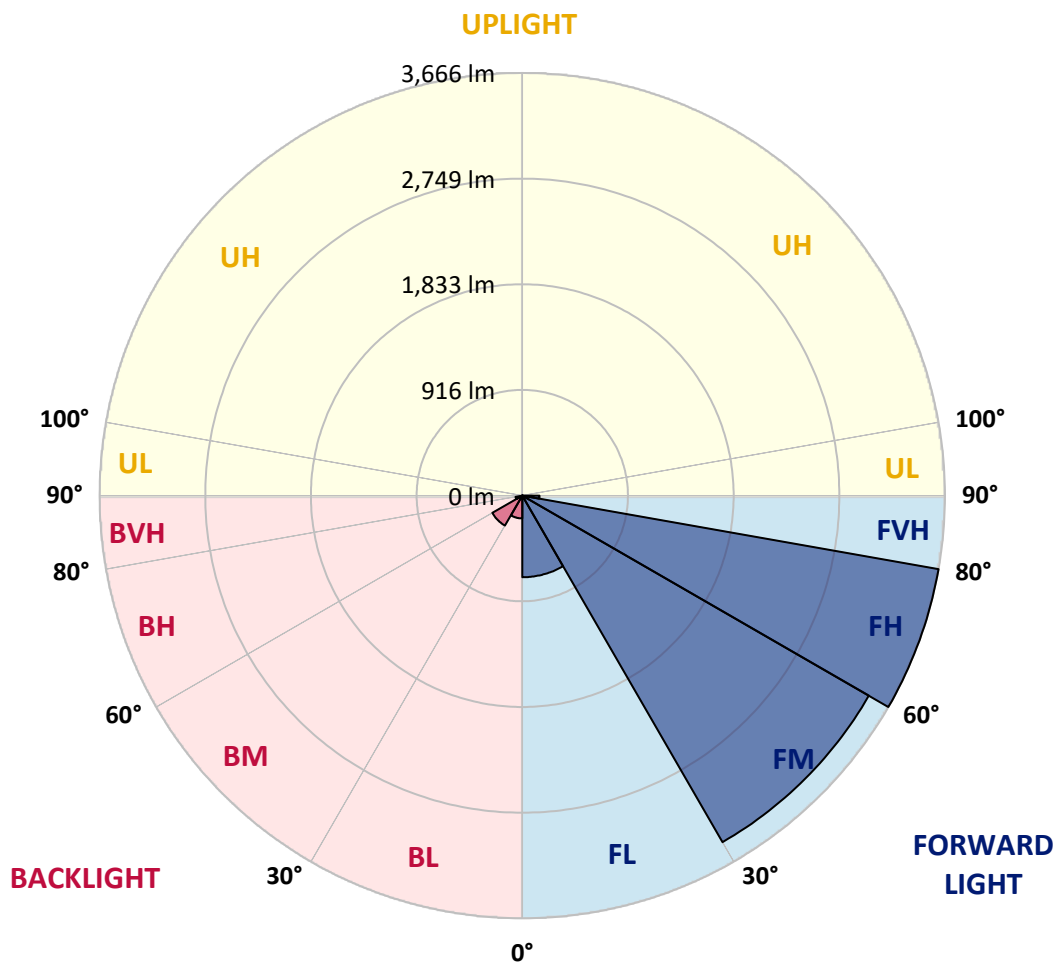
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	707.4	8.3			
FM (30°-60°)	3470.0	40.6			
FH (60°-80°)	3665.5	42.9			G2/5000
FVH (80°-90°)	148.6	1.7			G2/225
BL (0°-30°)	197.4	2.3	B1/500		
BM (30°-60°)	300.0	3.5	B1/1000		
BH (60°-80°)	58.9	0.7	B0/110		G0/110
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1333.9	1333.9	1333.9	1333.9	1333.9	1333.9	1333.9	1333.9	1333.9	1333.9	1333.9
2.5°	1541.3	1536.2	1529.3	1521.2	1498.2	1494.2	1480.4	1451.1	1416.1	1387.4	1347.7
5°	1614.3	1617.2	1612.0	1597.6	1581.0	1571.2	1554.0	1508.6	1463.2	1405.2	1340.3
7.5°	1630.9	1636.7	1630.4	1616.6	1600.5	1590.2	1576.4	1537.3	1484.5	1418.4	1329.3
10°	1629.2	1636.1	1632.1	1619.5	1606.2	1596.5	1581.5	1550.5	1508.0	1438.5	1332.8
12.5°	1626.3	1635.5	1635.0	1628.6	1617.7	1610.3	1601.1	1573.5	1533.9	1467.8	1351.7
15°	1618.3	1629.8	1640.1	1645.3	1645.9	1645.9	1634.4	1605.1	1567.2	1506.3	1376.4
17.5°	1621.8	1635.0	1660.8	1675.8	1686.1	1684.9	1672.9	1641.3	1599.3	1545.9	1402.3
20°	1643.0	1660.8	1697.0	1726.9	1737.2	1733.8	1717.7	1680.9	1633.2	1579.8	1427.6
22.5°	1695.3	1711.4	1756.8	1791.8	1799.3	1790.1	1767.1	1717.1	1674.0	1616.6	1458.0
25°	1773.4	1792.4	1834.3	1860.7	1860.7	1855.6	1823.4	1764.8	1720.0	1667.7	1497.7
27.5°	1868.2	1884.3	1925.6	1949.2	1935.4	1920.5	1888.3	1817.6	1774.6	1732.1	1545.3
30°	1964.1	1974.5	2018.1	2028.5	2014.1	1995.2	1960.7	1890.0	1852.1	1819.4	1614.3
32.5°	2054.9	2077.3	2113.5	2111.2	2091.7	2082.5	2050.9	1975.6	1954.4	1950.9	1710.8
35°	2145.7	2162.9	2195.1	2203.1	2185.9	2184.2	2161.2	2105.5	2106.0	2128.4	1861.3
37.5°	2223.8	2239.3	2277.2	2295.0	2298.5	2307.1	2297.9	2261.1	2313.4	2374.9	2060.7
40°	2289.3	2311.1	2359.4	2390.4	2426.0	2457.6	2459.3	2467.4	2572.5	2678.2	2320.9
42.5°	2340.4	2370.9	2441.0	2498.4	2580.0	2620.2	2652.4	2696.6	2873.5	3031.5	2627.7
45°	2407.1	2442.1	2529.4	2619.6	2747.2	2813.2	2858.0	2976.4	3227.4	3442.8	2942.5
47.5°	2517.4	2535.7	2624.8	2756.3	2924.1	3018.3	3105.6	3284.9	3607.1	3800.2	3204.4
50°	2659.3	2671.3	2738.5	2921.2	3138.4	3262.5	3421.6	3632.4	4001.2	4096.6	3352.7
52.5°	2816.1	2820.1	2870.7	3102.8	3378.5	3534.8	3712.8	3973.1	4322.4	4308.0	3450.9
55°	2998.2	2992.5	3035.5	3299.8	3662.9	3841.5	4048.9	4321.8	4601.0	4457.9	3507.2
57.5°	3206.7	3191.2	3233.2	3561.2	4027.1	4240.8	4451.6	4622.8	4817.0	4583.8	3534.2
60°	3425.0	3394.0	3444.0	3854.7	4456.2	4659.0	4834.2	4880.2	5044.5	4683.7	3487.7
62.5°	3599.1	3599.7	3692.7	4167.3	4897.4	5074.9	5168.0	5209.4	5240.4	4661.9	3242.9
65°	3870.8	3880.0	4028.8	4601.0	5408.1	5562.1	5625.9	5491.4	5249.0	4390.7	2875.3
67.5°	4151.2	4180.5	4452.8	5198.4	5998.1	6122.2	6040.1	5546.0	5014.6	3772.0	2180.1
70°	4242.5	4290.8	4739.4	5609.8	6352.0	6416.3	6138.3	5291.5	4192.0	2522.0	1097.3
72.5°	3887.5	3965.6	4574.6	5459.8	6126.2	6070.5	5492.0	4437.8	2665.0	957.7	334.9
75°	2741.4	2775.9	3801.9	4529.2	4927.3	4769.3	4177.6	2860.9	1096.1	268.9	114.9
77.5°	1415.5	1398.9	2261.1	3005.1	3514.1	3350.4	2735.7	1481.0	415.3	112.0	71.2
80°	731.9	743.9	978.3	1574.6	2145.1	1973.9	1458.6	686.5	221.2	62.0	54.6
82.5°	410.2	384.9	562.4	687.6	1003.0	786.5	559.5	486.0	96.5	37.3	51.7
85°	74.7	78.1	308.5	371.7	348.1	221.2	180.4	324.6	28.1	20.7	36.2
87.5°	1.1	1.1	59.7	106.9	67.8	31.0	56.9	46.5	5.7	8.0	6.3
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°	1333.9	1333.9	1333.9	1333.9	1333.9	1333.9	1333.9	1333.9	1333.9	1333.9	1333.9
2.5°	1327.6	1305.8	1265.0	1224.8	1173.7	1131.7	1103.6	1074.3	1044.4	1046.7	1053.6
5°	1304.6	1266.7	1186.3	1101.3	1019.7	946.2	873.8	808.9	782.4	758.3	759.5
7.5°	1281.7	1228.2	1110.5	977.2	853.7	728.4	637.7	563.0	523.3	493.5	484.9
10°	1271.3	1200.7	1041.0	857.7	682.5	545.8	429.1	368.2	321.1	306.2	310.2
12.5°	1275.9	1186.9	978.3	749.7	541.2	380.3	298.7	267.7	257.4	255.6	254.5
15°	1284.5	1177.1	916.9	630.2	397.5	282.6	251.0	245.3	244.2	243.0	243.6
17.5°	1296.0	1168.5	851.4	518.2	305.0	247.0	237.8	235.0	234.4	234.4	234.4
20°	1307.5	1158.7	778.4	418.2	254.5	233.2	227.5	225.8	225.2	225.2	224.6
22.5°	1320.7	1150.1	704.3	328.6	234.4	223.5	218.3	217.2	216.6	216.0	216.0
25°	1339.7	1139.2	625.6	268.9	221.7	214.3	209.1	208.0	207.4	205.1	205.7
27.5°	1365.0	1131.1	544.6	232.1	210.3	202.8	199.3	197.6	196.5	194.7	195.3
30°	1399.4	1124.3	458.4	212.0	197.0	190.7	187.3	186.1	185.0	183.3	183.3
32.5°	1459.2	1127.1	367.7	195.9	185.0	177.5	174.1	172.9	171.8	170.0	170.0
35°	1548.8	1143.8	294.1	182.1	170.6	163.2	159.7	159.7	158.0	155.7	155.1
37.5°	1695.3	1186.3	236.1	168.9	156.8	149.9	145.9	144.8	143.0	139.6	139.0
40°	1868.2	1252.4	198.8	155.7	144.2	137.3	133.9	130.4	125.8	122.4	121.8
42.5°	2085.4	1320.1	172.3	142.5	132.1	125.8	121.8	116.0	109.2	104.6	104.0
45°	2311.7	1382.2	154.5	130.4	120.6	115.5	110.9	101.7	93.1	87.3	86.7
47.5°	2480.6	1393.7	140.2	118.9	110.9	105.7	99.4	87.9	76.4	71.2	69.5
50°	2560.4	1338.0	125.2	107.4	101.1	95.4	87.3	74.1	61.5	55.1	54.0
52.5°	2588.6	1241.4	113.2	97.1	91.3	84.4	74.7	59.7	48.3	41.9	41.4
55°	2577.1	1119.7	102.3	87.3	79.9	71.8	62.0	47.7	35.6	30.4	29.3
57.5°	2516.8	964.5	91.3	77.6	68.4	60.3	49.4	35.6	24.1	19.5	19.0
60°	2354.2	753.1	80.4	66.6	58.0	49.4	39.1	25.3	14.9	10.9	10.9
62.5°	2079.6	559.0	70.1	55.7	48.8	39.6	27.6	16.1	8.0	5.7	5.2
65°	1737.8	412.5	58.6	47.1	40.8	31.0	19.5	9.8	4.0	1.7	1.1
67.5°	1212.7	254.5	48.8	38.5	33.3	22.4	12.1	4.0	1.7	0.0	0.0
70°	550.9	121.2	37.3	29.3	25.3	16.1	6.3	2.3	1.1	0.0	0.0
72.5°	171.2	63.8	26.4	21.3	17.2	10.3	3.4	1.7	1.1	0.0	0.0
75°	79.3	40.8	16.7	11.5	9.8	5.2	2.3	1.1	0.6	0.0	0.0
77.5°	59.2	31.6	9.8	6.3	5.2	3.4	1.7	1.1	0.6	0.0	0.0
80°	51.7	16.1	5.7	4.0	2.9	2.3	1.1	0.6	0.0	0.0	0.0
82.5°	46.5	8.0	3.4	2.3	1.7	1.1	0.6	0.6	0.0	0.0	0.0
85°	25.3	4.6	2.3	1.7	1.1	0.6	0.6	0.0	0.0	0.0	0.0
87.5°	4.6	2.3	1.7	1.1	1.1	0.6	0.6	0.6	0.0	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)