

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: P451360

Luminaire Tested: **GALN-SA2B-727-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451360
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-SA2B-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA 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: 7872 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

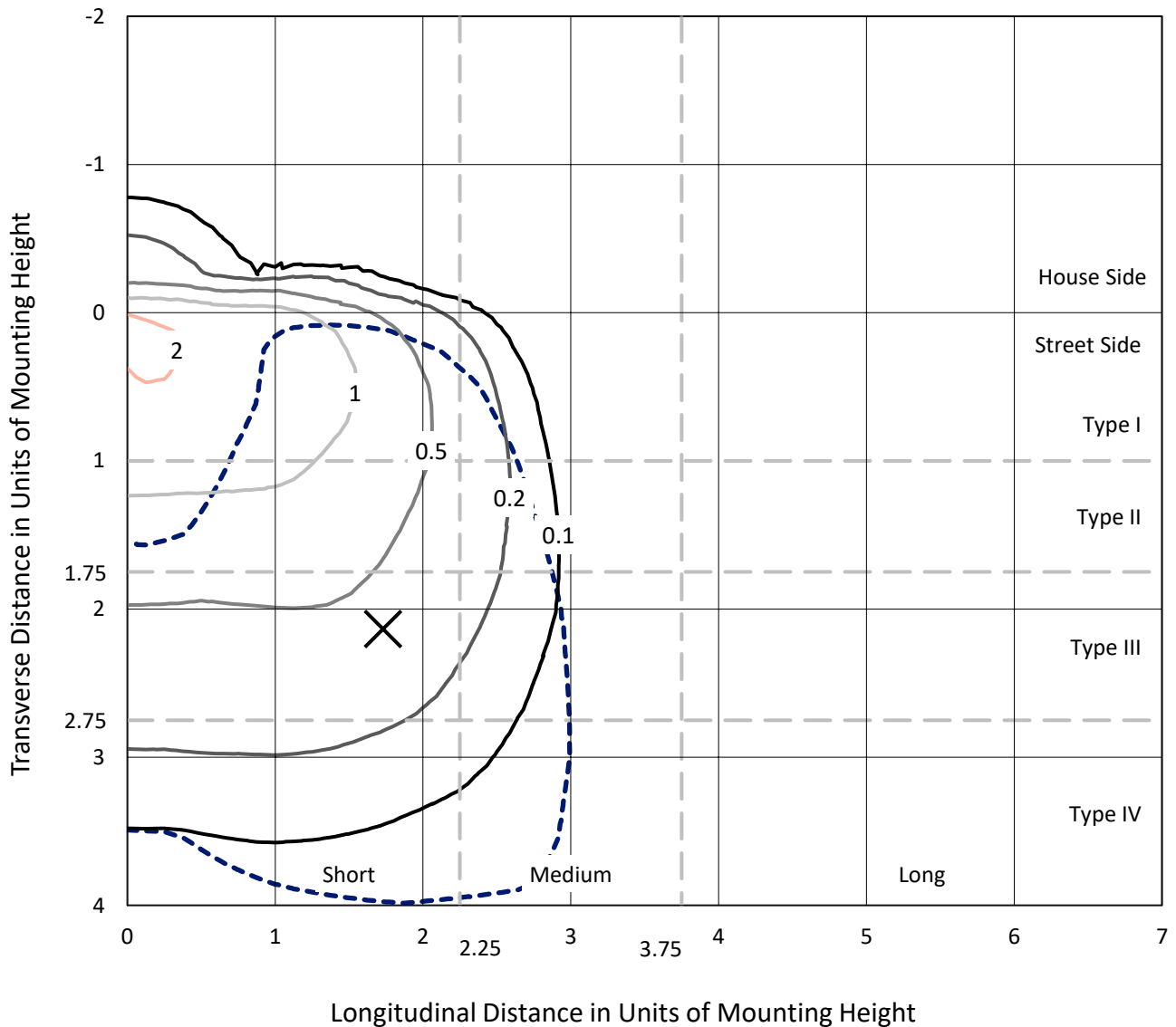
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

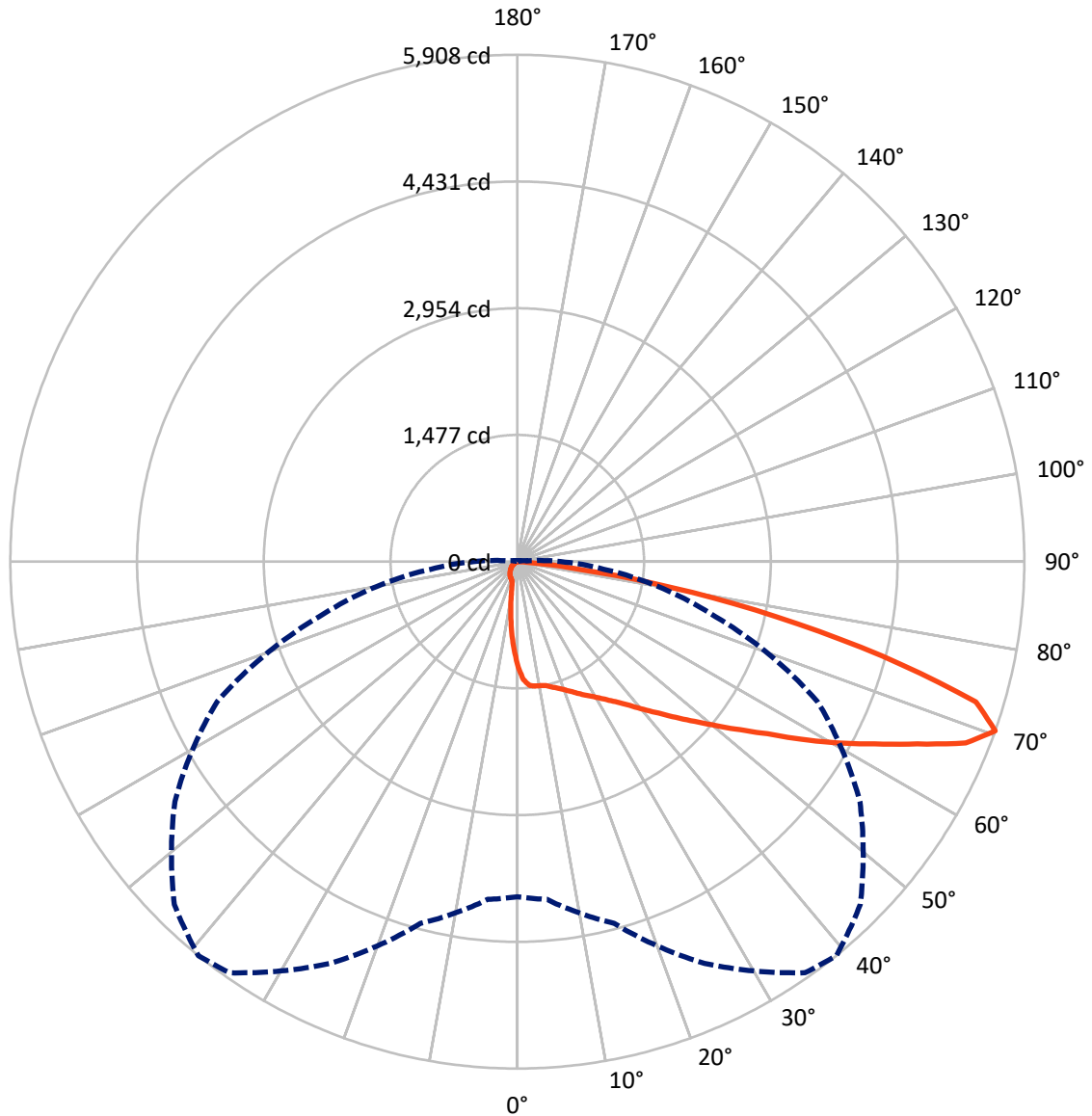
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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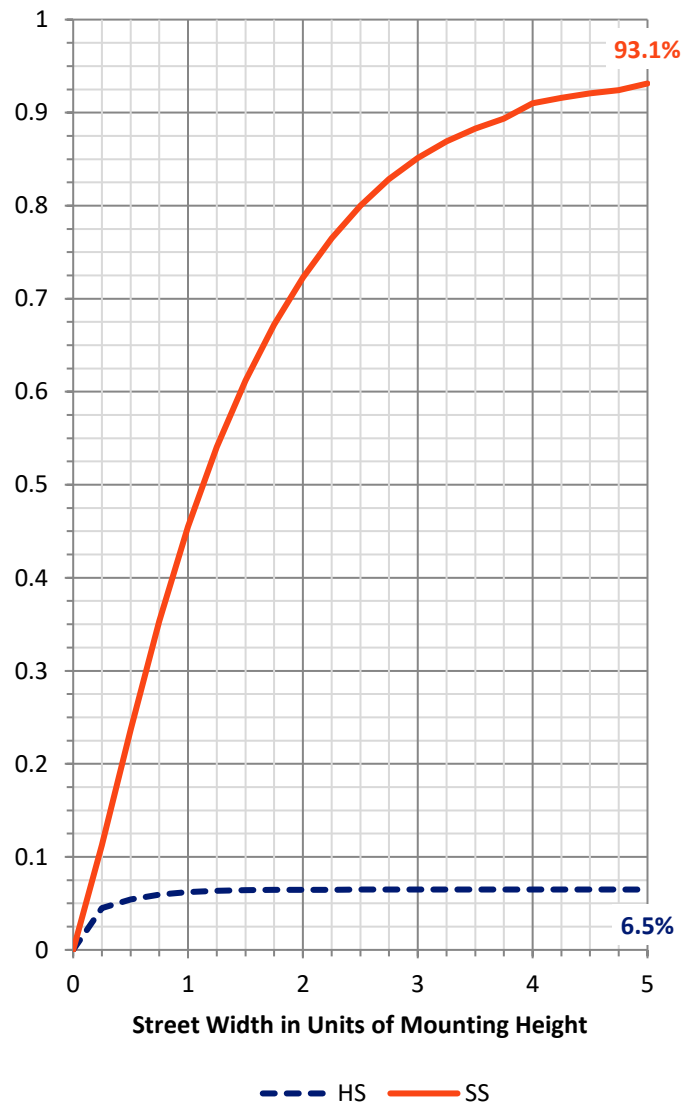
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	513.3	0.0	513.3
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	7358.7	0.0	7358.7
	% Fixture	93.5	0.0	93.5
Total	Lumens	7872.0	0.0	7872.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.8	1.3
10°-20°	272.3	3.5
20°-30°	456.1	5.8
30°-40°	707.4	9.0
40°-50°	1121.0	14.2
50°-60°	1643.2	20.9
60°-70°	2106.1	26.8
70°-80°	1323.4	16.8
80°-90°	137.9	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°	7872.0	100.0
0°-180°	7872.0	100.0

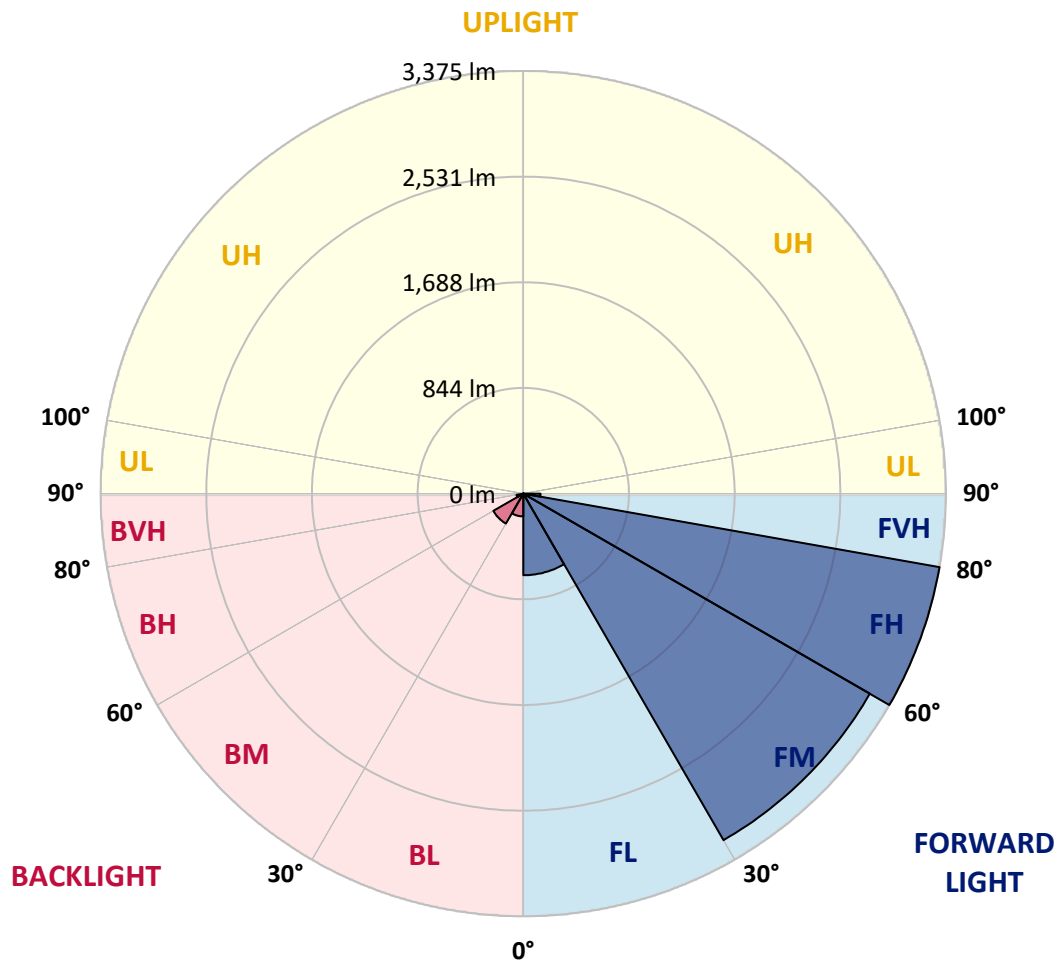


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	651.4	8.3			
FM (30°-60°)	3195.2	40.6			
FH (60°-80°)	3375.3	42.9			G2/5000
FVH (80°-90°)	136.9	1.7			G2/225
BL (0°-30°)	181.8	2.3	B1/500		
BM (30°-60°)	276.2	3.5	B1/1000		
BH (60°-80°)	54.3	0.7	B0/110		G0/110
BVH (80°-90°)	1.0	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°	1228.3	1228.3	1228.3	1228.3	1228.3	1228.3	1228.3	1228.3	1228.3	1228.3	1228.3
2.5°	1419.3	1414.5	1408.2	1400.8	1379.6	1375.9	1363.2	1336.2	1303.9	1277.5	1241.0
5°	1486.4	1489.1	1484.3	1471.1	1455.8	1446.8	1430.9	1389.1	1347.3	1293.9	1234.1
7.5°	1501.8	1507.1	1501.3	1488.6	1473.8	1464.2	1451.5	1415.6	1366.9	1306.1	1224.1
10°	1500.2	1506.5	1502.8	1491.2	1479.0	1470.0	1456.3	1427.7	1388.6	1324.6	1227.2
12.5°	1497.6	1506.0	1505.5	1499.7	1489.6	1482.7	1474.3	1448.9	1412.4	1351.6	1244.7
15°	1490.1	1500.7	1510.3	1515.0	1515.5	1515.5	1505.0	1478.0	1443.1	1387.0	1267.4
17.5°	1493.3	1505.5	1529.3	1543.0	1552.6	1551.5	1540.4	1511.3	1472.7	1423.5	1291.3
20°	1512.9	1529.3	1562.6	1590.1	1599.6	1596.5	1581.7	1547.8	1503.9	1454.7	1314.5
22.5°	1561.0	1575.8	1617.6	1649.9	1656.8	1648.3	1627.2	1581.1	1541.5	1488.6	1342.6
25°	1633.0	1650.4	1689.0	1713.4	1713.4	1708.6	1679.0	1625.0	1583.8	1535.6	1379.1
27.5°	1720.3	1735.1	1773.2	1794.8	1782.1	1768.4	1738.8	1673.7	1634.0	1594.9	1423.0
30°	1808.6	1818.1	1858.3	1867.8	1854.6	1837.2	1805.4	1740.4	1705.4	1675.3	1486.4
32.5°	1892.2	1912.8	1946.1	1944.0	1926.0	1917.6	1888.5	1819.2	1799.6	1796.4	1575.3
35°	1975.8	1991.6	2021.2	2028.7	2012.8	2011.2	1990.0	1938.7	1939.3	1959.9	1713.9
37.5°	2047.7	2062.0	2096.9	2113.3	2116.5	2124.4	2115.9	2082.1	2130.2	2186.8	1897.5
40°	2108.0	2128.1	2172.5	2201.1	2233.9	2263.0	2264.6	2272.0	2368.8	2466.1	2137.1
42.5°	2155.1	2183.1	2247.7	2300.6	2375.7	2412.7	2442.3	2483.1	2646.0	2791.5	2419.6
45°	2216.4	2248.7	2329.1	2412.2	2529.6	2590.4	2631.7	2740.7	2971.8	3170.2	2709.5
47.5°	2318.0	2334.9	2416.9	2538.1	2692.5	2779.3	2859.7	3024.7	3321.5	3499.2	2950.7
50°	2448.7	2459.8	2521.7	2689.9	2889.8	3004.1	3150.6	3344.8	3684.4	3772.2	3087.2
52.5°	2593.1	2596.8	2643.3	2857.0	3111.0	3254.8	3418.8	3658.5	3980.1	3966.9	3177.6
55°	2760.8	2755.5	2795.2	3038.5	3372.8	3537.3	3728.3	3979.6	4236.6	4104.9	3229.5
57.5°	2952.8	2938.5	2977.1	3279.2	3708.2	3905.0	4099.1	4256.7	4435.5	4220.8	3254.3
60°	3153.8	3125.2	3171.3	3549.5	4103.3	4290.1	4451.4	4493.7	4645.0	4312.8	3211.5
62.5°	3314.1	3314.6	3400.3	3837.3	4509.6	4673.0	4758.7	4796.8	4825.4	4292.7	2986.1
65°	3564.3	3572.8	3709.8	4236.6	4979.9	5121.6	5180.3	5056.6	4833.3	4043.0	2647.6
67.5°	3822.4	3849.4	4100.2	4786.8	5523.1	5637.4	5561.7	5106.8	4617.5	3473.3	2007.5
70°	3906.6	3951.0	4364.1	5165.5	5849.0	5908.2	5652.2	4872.5	3860.0	2322.2	1010.4
72.5°	3579.6	3651.6	4212.3	5027.5	5641.1	5589.8	5057.1	4086.4	2454.0	881.8	308.4
75°	2524.3	2556.1	3500.8	4170.5	4537.1	4391.6	3846.8	2634.3	1009.3	247.6	105.8
77.5°	1303.4	1288.1	2082.1	2767.1	3235.8	3085.0	2519.0	1363.7	382.5	103.2	65.6
80°	673.9	685.0	900.9	1449.9	1975.2	1817.6	1343.1	632.1	203.7	57.1	50.3
82.5°	377.7	354.4	517.9	633.2	923.6	724.2	515.2	447.5	88.9	34.4	47.6
85°	68.8	71.9	284.1	342.3	320.6	203.7	166.1	298.9	25.9	19.0	33.3
87.5°	1.1	1.1	55.0	98.4	62.4	28.6	52.4	42.8	5.3	7.4	5.8
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°	1228.3	1228.3	1228.3	1228.3	1228.3	1228.3	1228.3	1228.3	1228.3	1228.3	1228.3
2.5°	1222.5	1202.4	1164.8	1127.8	1080.7	1042.1	1016.2	989.2	961.7	963.8	970.2
5°	1201.3	1166.4	1092.4	1014.1	938.9	871.2	804.6	744.8	720.5	698.3	699.3
7.5°	1180.2	1131.0	1022.5	899.8	786.1	670.8	587.2	518.4	481.9	454.4	446.5
10°	1170.6	1105.6	958.5	789.8	628.4	502.5	395.2	339.1	295.7	281.9	285.7
12.5°	1174.9	1092.9	900.9	690.3	498.3	350.2	275.1	246.5	237.0	235.4	234.3
15°	1182.8	1083.9	844.3	580.3	366.1	260.3	231.2	225.9	224.8	223.8	224.3
17.5°	1193.4	1076.0	784.0	477.1	280.9	227.5	219.0	216.4	215.8	215.8	215.8
20°	1204.0	1067.0	716.8	385.1	234.3	214.8	209.5	207.9	207.4	207.4	206.8
22.5°	1216.1	1059.0	648.5	302.6	215.8	205.8	201.0	200.0	199.4	198.9	198.9
25°	1233.6	1049.0	576.1	247.6	204.2	197.3	192.6	191.5	191.0	188.8	189.4
27.5°	1256.9	1041.6	501.5	213.7	193.6	186.7	183.6	182.0	180.9	179.3	179.9
30°	1288.6	1035.2	422.1	195.2	181.4	175.6	172.4	171.4	170.3	168.7	168.7
32.5°	1343.6	1037.9	338.6	180.4	170.3	163.5	160.3	159.2	158.2	156.6	156.6
35°	1426.1	1053.2	270.8	167.7	157.1	150.2	147.1	147.1	145.5	143.4	142.8
37.5°	1561.0	1092.4	217.4	155.5	144.4	138.1	134.4	133.3	131.7	128.5	128.0
40°	1720.3	1153.2	183.0	143.4	132.8	126.4	123.3	120.1	115.8	112.7	112.1
42.5°	1920.2	1215.6	158.7	131.2	121.7	115.8	112.1	106.9	100.5	96.3	95.7
45°	2128.6	1272.7	142.3	120.1	111.1	106.3	102.1	93.6	85.7	80.4	79.9
47.5°	2284.2	1283.3	129.1	109.5	102.1	97.3	91.5	80.9	70.4	65.6	64.0
50°	2357.7	1232.0	115.3	98.9	93.1	87.8	80.4	68.2	56.6	50.8	49.7
52.5°	2383.6	1143.1	104.2	89.4	84.1	77.8	68.8	55.0	44.4	38.6	38.1
55°	2373.0	1031.0	94.2	80.4	73.5	66.1	57.1	43.9	32.8	28.0	27.0
57.5°	2317.5	888.2	84.1	71.4	62.9	55.5	45.5	32.8	22.2	18.0	17.5
60°	2167.8	693.5	74.1	61.4	53.4	45.5	36.0	23.3	13.8	10.1	10.1
62.5°	1914.9	514.7	64.5	51.3	45.0	36.5	25.4	14.8	7.4	5.3	4.8
65°	1600.2	379.8	54.0	43.4	37.6	28.6	18.0	9.0	3.7	1.6	1.1
67.5°	1116.7	234.3	45.0	35.4	30.7	20.6	11.1	3.7	1.6	0.0	0.0
70°	507.3	111.6	34.4	27.0	23.3	14.8	5.8	2.1	1.1	0.0	0.0
72.5°	157.6	58.7	24.3	19.6	15.9	9.5	3.2	1.6	1.1	0.0	0.0
75°	73.0	37.6	15.3	10.6	9.0	4.8	2.1	1.1	0.5	0.0	0.0
77.5°	54.5	29.1	9.0	5.8	4.8	3.2	1.6	1.1	0.5	0.0	0.0
80°	47.6	14.8	5.3	3.7	2.6	2.1	1.1	0.5	0.0	0.0	0.0
82.5°	42.8	7.4	3.2	2.1	1.6	1.1	0.5	0.5	0.0	0.0	0.0
85°	23.3	4.2	2.1	1.6	1.1	0.5	0.5	0.0	0.0	0.0	0.0
87.5°	4.2	2.1	1.6	1.1	1.1	0.5	0.5	0.5	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)