

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: P451186

Luminaire Tested: **GALN-SA2A-740-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451186
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-SA2A-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA 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: 7565 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

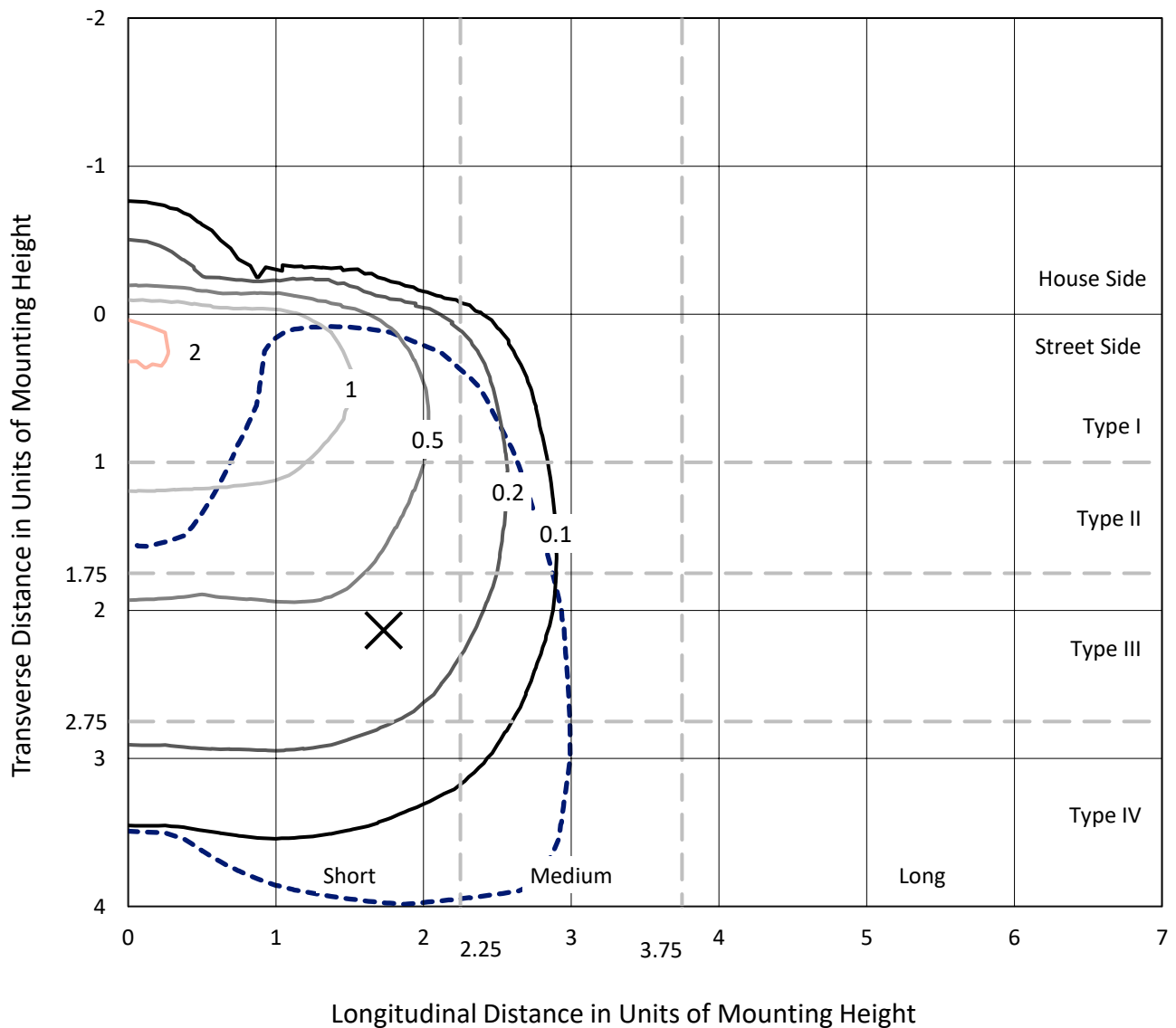
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

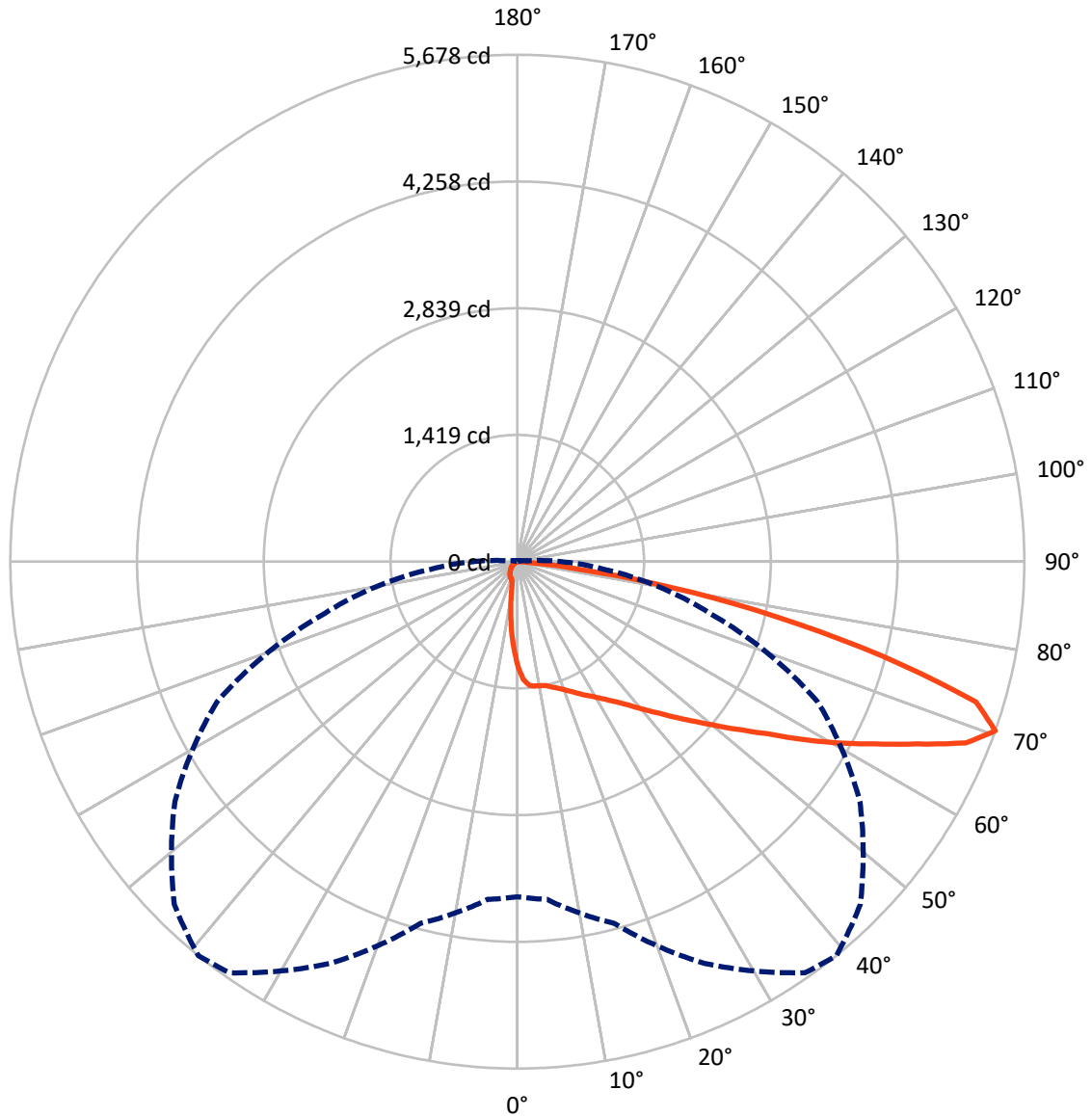
× Max cd
 - - - 1/2 Max cd



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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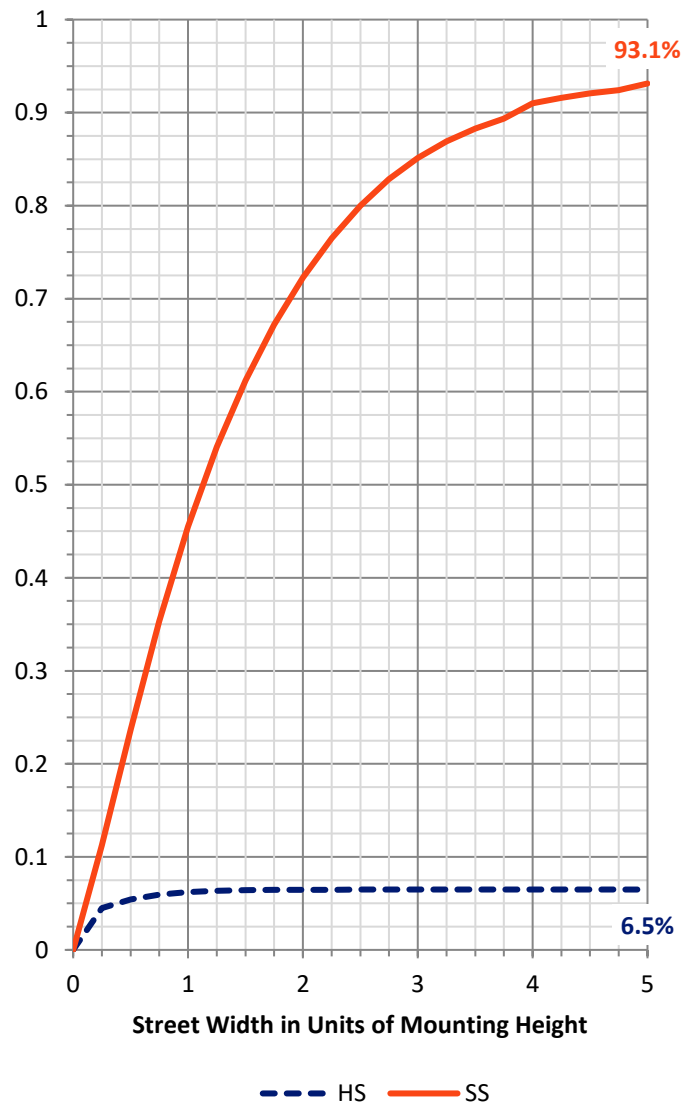
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	493.3	0.0	493.3
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	7071.7	0.0	7071.7
	% Fixture	93.5	0.0	93.5
Total	Lumens	7565.0	0.0	7565.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.7	1.3
10°-20°	261.6	3.5
20°-30°	438.3	5.8
30°-40°	679.8	9.0
40°-50°	1077.2	14.2
50°-60°	1579.1	20.9
60°-70°	2024.0	26.8
70°-80°	1271.8	16.8
80°-90°	132.5	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°	7565.0	100.0
0°-180°	7565.0	100.0



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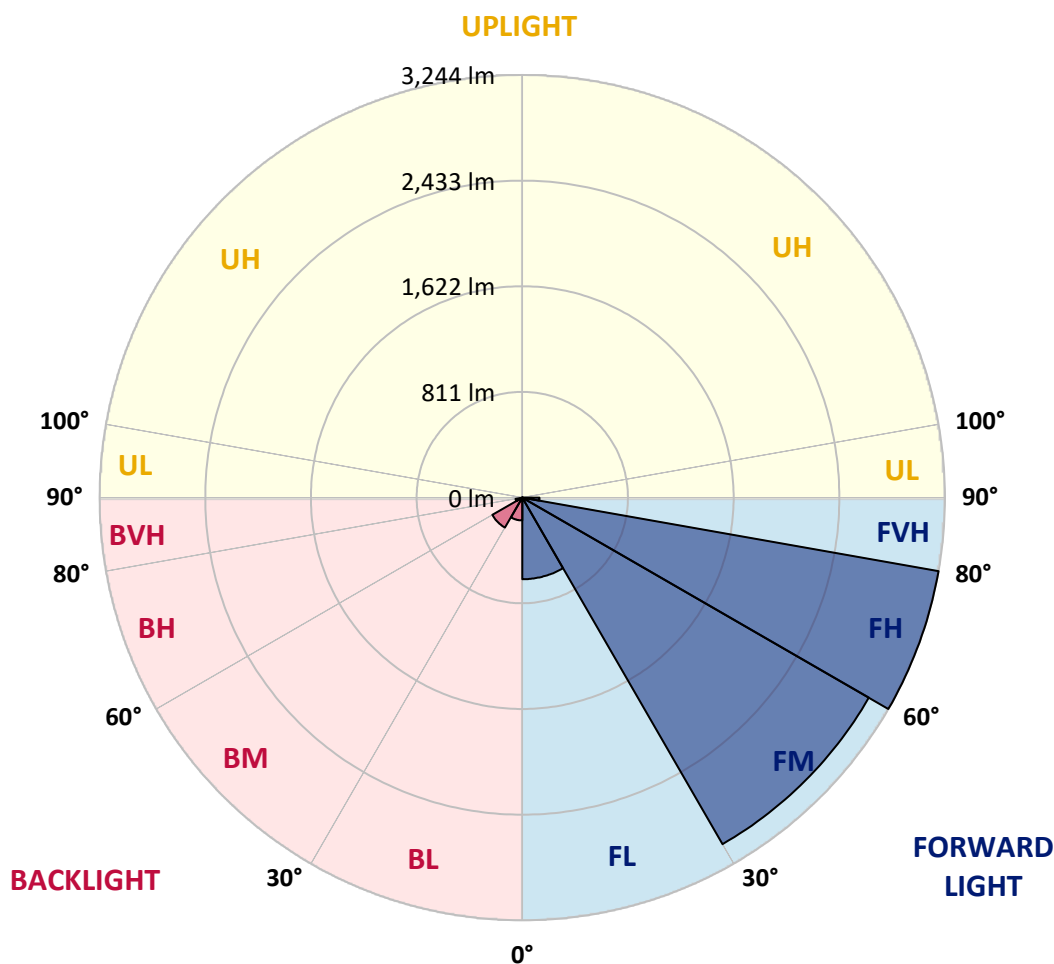
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	626.0	8.3			
FM (30°-60°)	3070.6	40.6			
FH (60°-80°)	3243.6	42.9			G2/5000
FVH (80°-90°)	131.5	1.7			G2/225
BL (0°-30°)	174.7	2.3	B1/500		
BM (30°-60°)	265.5	3.5	B1/1000		
BH (60°-80°)	52.2	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°	1180.4	1180.4	1180.4	1180.4	1180.4	1180.4	1180.4	1180.4	1180.4	1180.4	1180.4
2.5°	1363.9	1359.3	1353.2	1346.1	1325.8	1322.2	1310.0	1284.1	1253.1	1227.7	1192.6
5°	1428.5	1431.0	1426.4	1413.7	1399.0	1390.3	1375.1	1334.9	1294.8	1243.4	1186.0
7.5°	1443.2	1448.3	1442.7	1430.5	1416.3	1407.1	1394.9	1360.4	1313.6	1255.1	1176.3
10°	1441.7	1447.8	1444.2	1433.1	1421.4	1412.7	1399.5	1372.0	1334.4	1272.9	1179.4
12.5°	1439.2	1447.3	1446.8	1441.2	1431.5	1424.9	1416.8	1392.4	1357.3	1298.8	1196.2
15°	1432.0	1442.2	1451.4	1455.9	1456.4	1456.4	1446.3	1420.3	1386.8	1332.9	1218.0
17.5°	1435.1	1446.8	1469.7	1482.9	1492.0	1491.0	1480.3	1452.4	1415.3	1368.0	1240.9
20°	1453.9	1469.7	1501.7	1528.1	1537.3	1534.2	1520.0	1487.4	1445.3	1398.0	1263.3
22.5°	1500.2	1514.4	1554.5	1585.6	1592.2	1584.0	1563.7	1519.5	1481.3	1430.5	1290.2
25°	1569.3	1586.1	1623.2	1646.6	1646.6	1642.0	1613.5	1561.7	1522.0	1475.8	1325.3
27.5°	1653.2	1667.4	1704.0	1724.8	1712.6	1699.4	1671.0	1608.4	1570.3	1532.7	1367.5
30°	1738.1	1747.2	1785.8	1795.0	1782.3	1765.5	1735.0	1672.5	1638.9	1610.0	1428.5
32.5°	1818.4	1838.2	1870.2	1868.2	1850.9	1842.8	1814.8	1748.2	1729.4	1726.4	1513.9
35°	1898.7	1914.0	1942.4	1949.5	1934.3	1932.8	1912.4	1863.1	1863.6	1883.5	1647.1
37.5°	1967.8	1981.6	2015.1	2030.9	2033.9	2041.6	2033.4	2000.9	2047.1	2101.5	1823.5
40°	2025.8	2045.1	2087.8	2115.3	2146.8	2174.7	2176.3	2183.4	2276.4	2369.9	2053.8
42.5°	2071.0	2098.0	2160.0	2210.8	2283.0	2318.6	2347.1	2386.2	2542.8	2682.6	2325.2
45°	2130.0	2161.0	2238.3	2318.1	2431.0	2489.4	2529.1	2633.8	2855.9	3046.6	2603.8
47.5°	2227.6	2243.9	2322.7	2439.1	2587.5	2670.9	2748.2	2906.8	3192.0	3362.8	2835.6
50°	2353.2	2363.8	2423.3	2585.0	2777.1	2886.9	3027.8	3214.3	3540.7	3625.1	2966.8
52.5°	2492.0	2495.5	2540.2	2745.6	2989.6	3127.9	3285.5	3515.8	3824.9	3812.2	3053.7
55°	2653.1	2648.0	2686.1	2920.0	3241.3	3399.4	3582.9	3824.4	4071.4	3944.8	3103.5
57.5°	2837.6	2823.9	2861.0	3151.3	3563.6	3752.7	3939.2	4090.7	4262.6	4056.2	3127.4
60°	3030.8	3003.4	3047.6	3411.1	3943.3	4122.8	4277.8	4318.5	4463.9	4144.6	3086.2
62.5°	3184.8	3185.4	3267.7	3687.6	4333.7	4490.8	4573.2	4609.8	4637.2	4125.3	2869.7
65°	3425.3	3433.4	3565.1	4071.4	4785.7	4921.9	4978.3	4859.4	4644.8	3885.4	2544.3
67.5°	3673.4	3699.3	3940.3	4600.1	5307.7	5417.5	5344.8	4907.7	4437.4	3337.9	1929.2
70°	3754.2	3796.9	4193.9	4964.1	5620.9	5677.8	5431.8	4682.5	3709.5	2231.7	971.0
72.5°	3440.0	3509.2	4048.0	4831.4	5421.1	5371.8	4859.9	3927.0	2358.3	847.4	296.4
75°	2425.9	2456.4	3364.3	4007.9	4360.2	4220.4	3696.8	2531.6	969.9	237.9	101.7
77.5°	1252.6	1237.8	2000.9	2659.2	3109.6	2964.7	2420.8	1310.5	367.5	99.1	63.0
80°	647.6	658.3	865.7	1393.4	1898.2	1746.7	1290.7	607.5	195.7	54.9	48.3
82.5°	363.0	340.6	497.7	608.5	887.6	695.9	495.1	430.1	85.4	33.0	45.8
85°	66.1	69.1	273.0	328.9	308.1	195.7	159.6	287.2	24.9	18.3	32.0
87.5°	1.0	1.0	52.9	94.6	60.0	27.5	50.3	41.2	5.1	7.1	5.6
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°	1180.4	1180.4	1180.4	1180.4	1180.4	1180.4	1180.4	1180.4	1180.4	1180.4	1180.4
2.5°	1174.8	1155.5	1119.4	1083.8	1038.6	1001.5	976.5	950.6	924.2	926.2	932.3
5°	1154.5	1120.9	1049.8	974.5	902.3	837.3	773.2	715.8	692.4	671.0	672.0
7.5°	1134.1	1086.9	982.6	864.7	755.4	644.6	564.3	498.2	463.1	436.7	429.1
10°	1125.0	1062.5	921.1	759.0	603.9	482.9	379.7	325.9	284.2	271.0	274.5
12.5°	1129.1	1050.3	865.7	663.4	478.9	336.5	264.3	236.9	227.7	226.2	225.2
15°	1136.7	1041.6	811.3	557.7	351.8	250.1	222.2	217.1	216.1	215.0	215.5
17.5°	1146.8	1034.0	753.4	458.5	269.9	218.6	210.5	207.9	207.4	207.4	207.4
20°	1157.0	1025.4	688.8	370.1	225.2	206.4	201.3	199.8	199.3	199.3	198.8
22.5°	1168.7	1017.7	623.2	290.8	207.4	197.7	193.2	192.2	191.6	191.1	191.1
25°	1185.5	1008.1	553.6	237.9	196.2	189.6	185.0	184.0	183.5	181.5	182.0
27.5°	1207.9	1001.0	481.9	205.4	186.1	179.4	176.4	174.9	173.9	172.3	172.8
30°	1238.4	994.9	405.7	187.6	174.4	168.8	165.7	164.7	163.7	162.2	162.2
32.5°	1291.2	997.4	325.3	173.3	163.7	157.1	154.0	153.0	152.0	150.5	150.5
35°	1370.5	1012.1	260.3	161.1	151.0	144.4	141.3	141.3	139.8	137.8	137.3
37.5°	1500.2	1049.8	208.9	149.5	138.8	132.7	129.1	128.1	126.6	123.5	123.0
40°	1653.2	1108.2	175.9	137.8	127.6	121.5	118.4	115.4	111.3	108.3	107.8
42.5°	1845.3	1168.2	152.5	126.1	116.9	111.3	107.8	102.7	96.6	92.5	92.0
45°	2045.6	1223.1	136.7	115.4	106.8	102.2	98.1	90.0	82.4	77.3	76.8
47.5°	2195.1	1233.3	124.0	105.2	98.1	93.5	87.9	77.8	67.6	63.0	61.5
50°	2265.7	1184.0	110.8	95.1	89.5	84.4	77.3	65.6	54.4	48.8	47.8
52.5°	2290.6	1098.6	100.1	85.9	80.8	74.7	66.1	52.9	42.7	37.1	36.6
55°	2280.5	990.8	90.5	77.3	70.7	63.5	54.9	42.2	31.5	26.9	25.9
57.5°	2227.1	853.5	80.8	68.6	60.5	53.4	43.7	31.5	21.4	17.3	16.8
60°	2083.2	666.5	71.2	59.0	51.3	43.7	34.6	22.4	13.2	9.7	9.7
62.5°	1840.2	494.6	62.0	49.3	43.2	35.1	24.4	14.2	7.1	5.1	4.6
65°	1537.8	365.0	51.9	41.7	36.1	27.5	17.3	8.6	3.6	1.5	1.0
67.5°	1073.1	225.2	43.2	34.1	29.5	19.8	10.7	3.6	1.5	0.0	0.0
70°	487.5	107.3	33.0	25.9	22.4	14.2	5.6	2.0	1.0	0.0	0.0
72.5°	151.5	56.4	23.4	18.8	15.3	9.2	3.1	1.5	1.0	0.0	0.0
75°	70.2	36.1	14.7	10.2	8.6	4.6	2.0	1.0	0.5	0.0	0.0
77.5°	52.4	28.0	8.6	5.6	4.6	3.1	1.5	1.0	0.5	0.0	0.0
80°	45.8	14.2	5.1	3.6	2.5	2.0	1.0	0.5	0.0	0.0	0.0
82.5°	41.2	7.1	3.1	2.0	1.5	1.0	0.5	0.5	0.0	0.0	0.0
85°	22.4	4.1	2.0	1.5	1.0	0.5	0.5	0.0	0.0	0.0	0.0
87.5°	4.1	2.0	1.5	1.0	1.0	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)