

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: P651869

Luminaire Tested: **GALN-SA4A-840-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651869
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10955.7 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

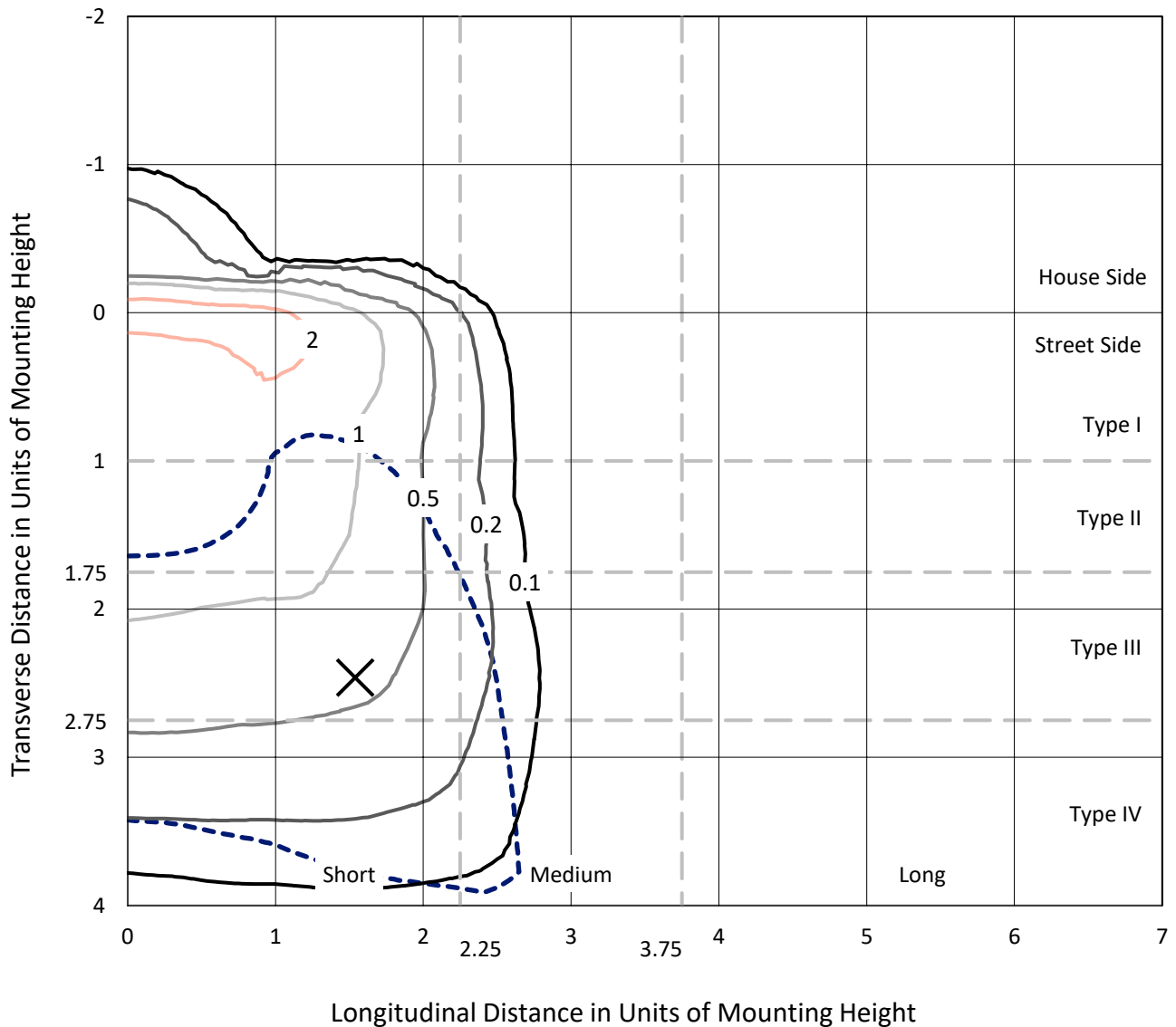
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651869
 CATALOG NUMBER: GALN-SA4A-840-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

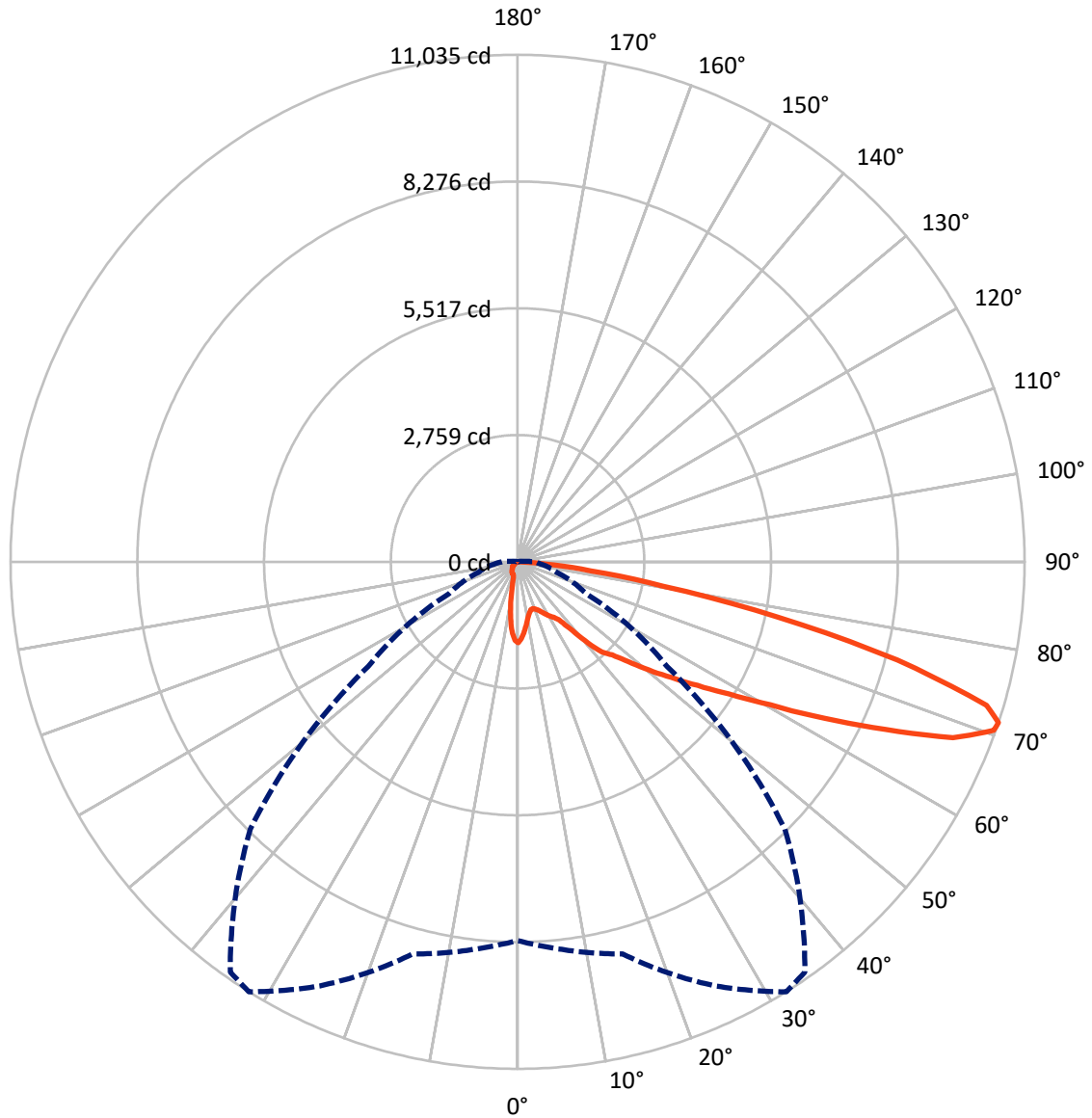
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P651869
CATALOG NUMBER: GALN-SA4A-840-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P651869
 CATALOG NUMBER: GALN-SA4A-840-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	917.7	0.0	917.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	10038.1	0.0	10038.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	10955.7	0.0	10955.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.3	1.3
10°-20°	310.9	2.8
20°-30°	483.7	4.4
30°-40°	805.8	7.4
40°-50°	1499.0	13.7
50°-60°	2406.7	22.0
60°-70°	3237.1	29.5
70°-80°	1920.6	17.5
80°-90°	148.5	1.4
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°	10955.7	100.0
0°-180°	10955.7	100.0

Coefficient of Utilization

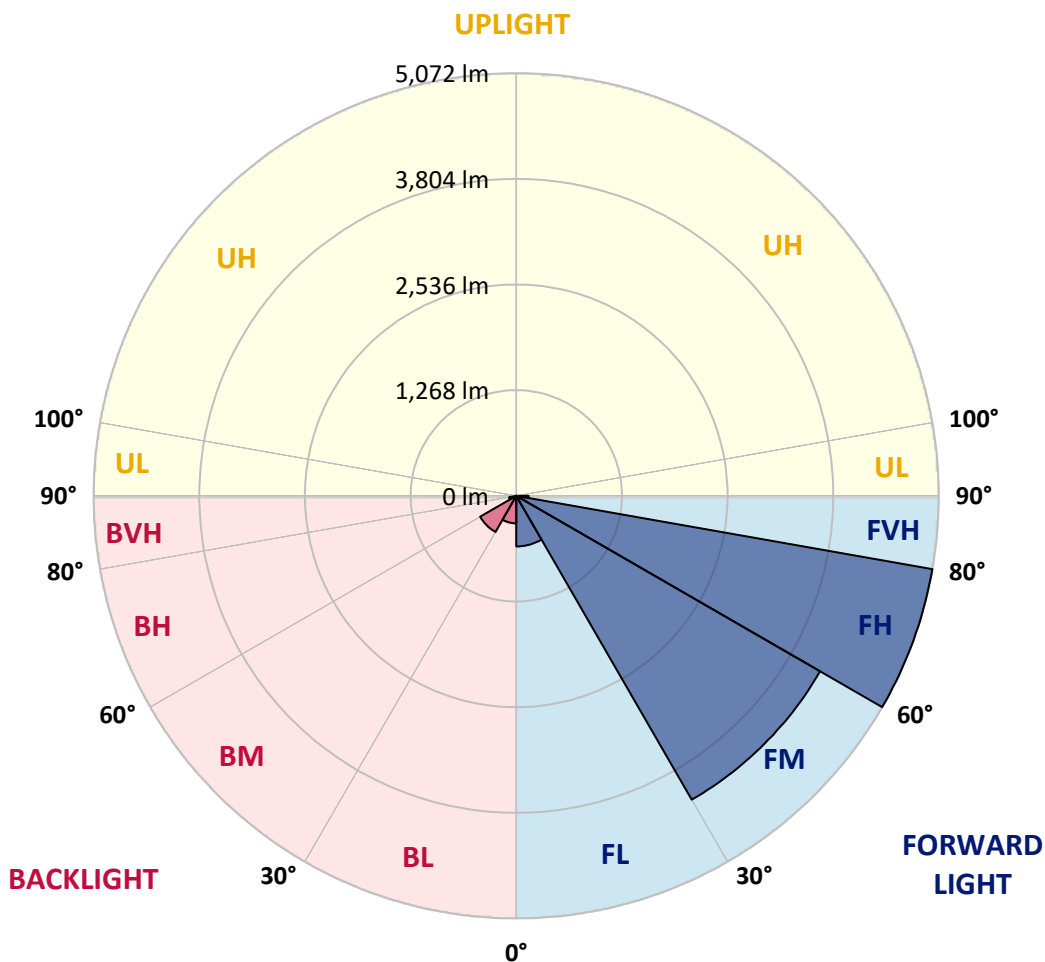


REPORT NUMBER: P651869
 CATALOG NUMBER: GALN-SA4A-840-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	607.2	5.5			
FM (30°-60°)	4211.0	38.4			
FH (60°-80°)	5072.0	46.3			G3/7500
FVH (80°-90°)	147.9	1.3			G2/225
BL (0°-30°)	330.7	3.0	B1/500		
BM (30°-60°)	500.6	4.6	B1/1000		
BH (60°-80°)	85.8	0.8	B0/110		G0/110
BVH (80°-90°)	0.6	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-G3
 Type IV Short





REPORT NUMBER: P651869

CATALOG NUMBER: GALN-SA4A-840-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1761.8	1761.8	1761.8	1761.8	1761.8	1761.8	1761.8	1761.8	1761.8	1761.8	1761.8
2.5°	1634.0	1650.8	1648.3	1654.2	1668.5	1674.3	1690.3	1708.0	1732.4	1749.2	1760.1
5°	1463.3	1476.0	1477.6	1507.1	1521.4	1537.3	1584.4	1635.7	1692.8	1738.3	1768.5
7.5°	1280.8	1287.6	1301.0	1339.7	1375.9	1391.9	1463.3	1552.5	1642.4	1727.3	1782.0
10°	1130.3	1137.9	1162.3	1203.5	1237.1	1258.1	1357.4	1469.2	1595.4	1721.4	1801.3
12.5°	1044.5	1048.7	1058.0	1095.0	1137.9	1160.6	1267.4	1395.2	1557.5	1724.0	1834.1
15°	1038.6	1037.0	1026.0	1041.2	1079.8	1103.4	1207.7	1344.8	1523.9	1732.4	1872.8
17.5°	1069.8	1065.5	1039.5	1039.5	1071.4	1090.8	1182.4	1317.8	1507.1	1751.7	1927.5
20°	1117.7	1111.0	1068.1	1064.7	1095.8	1116.0	1197.6	1319.5	1510.4	1787.9	2000.7
22.5°	1178.2	1170.7	1105.9	1107.6	1141.2	1161.4	1241.3	1349.8	1531.5	1832.5	2078.9
25°	1257.3	1248.9	1172.4	1169.0	1204.3	1222.0	1306.1	1403.6	1560.9	1888.0	2181.5
27.5°	1362.4	1344.8	1253.1	1248.0	1285.9	1308.6	1384.3	1476.0	1613.0	1964.5	2319.4
30°	1449.0	1429.7	1342.2	1328.8	1369.1	1386.8	1465.0	1573.5	1715.6	2098.2	2510.3
32.5°	1562.6	1534.0	1431.4	1396.1	1439.0	1461.7	1581.9	1755.1	1867.8	2239.5	2737.4
35°	1818.2	1800.5	1675.2	1551.6	1549.1	1577.7	1754.2	1938.4	2024.2	2459.8	3046.9
37.5°	2184.0	2171.4	2038.5	1872.8	1824.9	1811.4	1963.7	2140.3	2274.0	2762.6	3406.8
40°	2608.7	2579.3	2457.3	2316.9	2254.6	2215.1	2210.9	2440.5	2600.3	3173.8	3781.9
42.5°	2913.1	2859.3	2711.3	2701.2	2687.8	2646.5	2527.1	2879.5	3021.6	3616.2	4183.0
45°	3232.7	3151.1	2930.8	2893.0	2887.9	2885.4	3004.8	3399.2	3480.8	4095.6	4595.1
47.5°	3480.8	3416.1	3235.2	3218.4	3239.4	3296.6	3636.4	3950.9	3934.1	4522.8	4940.7
50°	3811.3	3762.5	3561.6	3593.5	3702.0	3795.3	4348.7	4552.2	4306.7	4859.1	5192.2
52.5°	4201.6	4111.6	3924.9	4011.5	4178.0	4333.6	5104.7	5078.6	4568.2	5112.3	5379.7
55°	4539.6	4475.7	4411.8	4501.8	4750.7	4944.9	5787.6	5473.1	4758.3	5315.8	5462.1
57.5°	5111.4	5096.3	5030.7	5122.4	5424.3	5626.1	6399.0	5779.2	4880.2	5421.8	5365.4
60°	5957.5	5933.1	5811.1	5928.0	6321.6	6638.7	6962.5	6054.2	4907.9	5380.5	5087.0
62.5°	6975.1	6891.8	6787.5	6959.9	7499.9	7639.5	7493.1	6217.3	4804.5	5052.6	4416.0
65°	7925.4	7839.6	7842.2	8205.4	8793.2	8888.3	8112.0	6193.0	4501.8	4231.0	3257.1
67.5°	8652.8	8638.5	8741.1	9450.1	10218.7	10153.1	8665.4	5828.0	3604.4	2742.4	1730.7
70°	8689.8	8717.6	9011.9	10208.6	10989.1	10884.8	8618.3	4737.3	2247.1	1261.5	682.1
71°	8242.4	8429.1	8836.1	10185.1	11034.5	10899.1	8221.4	3967.8	1648.3	879.7	492.0
72.5°	7023.9	7122.3	8001.9	9585.5	10675.4	10386.1	7214.8	2781.1	1055.5	538.2	282.6
75°	3868.5	4110.7	5358.7	7520.1	8538.4	8284.4	4701.9	1321.2	526.5	294.3	116.9
77.5°	1841.7	1794.6	2614.6	4472.4	5789.3	5775.8	2369.0	587.0	307.0	199.3	58.9
80°	526.5	592.1	1000.8	2126.0	3214.2	3249.5	910.0	283.4	212.8	155.6	30.3
82.5°	158.9	162.3	367.5	940.2	1598.7	1507.1	341.4	144.7	153.1	123.6	17.7
85°	27.8	34.5	108.5	331.4	609.7	462.6	85.8	69.0	100.9	81.6	10.1
87.5°	1.7	2.5	36.2	37.8	53.8	31.1	15.1	10.1	21.9	21.9	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P651869

CATALOG NUMBER: GALN-SA4A-840-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1761.8	1761.8	1761.8	1761.8	1761.8	1761.8	1761.8	1761.8	1761.8	1761.8	1761.8
2.5°	1767.7	1772.7	1769.4	1761.8	1749.2	1734.1	1713.9	1697.1	1682.8	1675.2	1684.4
5°	1778.6	1785.4	1768.5	1730.7	1673.5	1611.3	1540.7	1486.0	1443.2	1429.7	1424.7
7.5°	1795.5	1799.7	1754.2	1670.1	1549.1	1401.9	1273.3	1164.8	1080.7	1055.5	1018.5
10°	1817.3	1814.8	1729.0	1572.7	1359.9	1138.7	939.4	791.4	679.5	639.2	635.8
12.5°	1851.0	1837.5	1697.1	1439.8	1134.5	845.2	598.8	468.4	397.8	374.2	369.2
15°	1893.0	1861.0	1646.6	1284.2	868.8	545.8	369.2	329.7	320.4	318.7	317.1
17.5°	1942.6	1892.2	1580.2	1093.3	610.6	354.1	308.6	307.8	308.6	307.0	306.1
20°	2009.9	1925.0	1501.2	867.1	403.7	298.6	294.3	294.3	295.2	294.3	294.3
22.5°	2081.4	1963.7	1403.6	661.9	304.4	283.4	282.6	284.3	285.9	285.1	285.1
25°	2169.7	2014.1	1275.0	453.3	272.5	270.8	271.6	275.0	278.4	279.2	278.4
27.5°	2297.5	2076.3	1137.0	312.0	249.8	251.5	259.9	268.3	273.3	274.2	274.2
30°	2441.3	2145.3	957.1	253.1	231.3	231.3	241.4	257.3	268.3	270.0	270.8
32.5°	2626.4	2225.2	757.7	227.9	213.6	211.9	221.2	240.5	260.7	266.6	266.6
35°	2855.1	2319.4	563.5	211.9	201.0	196.8	201.8	217.8	243.9	260.7	262.4
37.5°	3123.4	2408.5	412.1	197.6	189.2	183.3	186.7	199.3	220.3	245.6	252.3
40°	3371.5	2487.6	307.8	185.9	177.5	173.2	175.8	181.7	199.3	222.9	227.1
42.5°	3642.3	2549.0	244.7	173.2	165.7	164.0	164.0	166.5	178.3	191.7	192.6
45°	3912.2	2570.9	205.2	158.1	153.1	154.7	153.9	152.2	157.3	155.6	155.6
47.5°	4104.8	2544.8	169.9	143.8	143.8	146.3	142.1	136.2	133.7	123.6	124.5
50°	4236.9	2449.7	139.6	127.0	133.7	137.1	128.7	119.4	110.2	99.2	96.7
52.5°	4291.5	2280.7	114.4	105.1	118.6	122.8	112.7	101.8	87.5	78.2	75.7
55°	4256.2	2072.1	95.0	85.8	100.1	105.1	95.0	82.4	66.4	56.3	54.7
57.5°	4100.6	1823.2	80.7	68.1	79.9	83.3	76.5	63.1	47.1	37.0	37.0
60°	3831.5	1565.9	65.6	53.8	59.7	64.8	58.0	45.4	32.0	22.7	21.0
62.5°	3285.7	1271.6	53.0	42.0	42.0	46.3	40.4	32.8	20.2	11.8	10.9
65°	2372.4	872.1	42.0	31.1	30.3	30.3	25.2	21.9	11.8	5.0	3.4
67.5°	1289.3	492.0	33.6	23.5	21.0	20.2	16.0	12.6	5.0	0.8	0.0
70°	507.1	189.2	26.1	16.0	13.5	12.6	8.4	5.9	3.4	0.0	0.0
71°	344.0	130.4	22.7	13.5	10.9	9.3	6.7	5.0	2.5	0.0	0.0
72.5°	196.8	80.7	17.7	10.1	8.4	6.7	5.0	3.4	2.5	0.0	0.0
75°	85.8	41.2	10.9	7.6	5.9	4.2	3.4	2.5	0.8	0.0	0.0
77.5°	43.7	22.7	7.6	5.9	3.4	2.5	1.7	0.8	0.0	0.0	0.0
80°	24.4	11.8	5.0	3.4	2.5	1.7	0.8	0.8	0.0	0.0	0.0
82.5°	13.5	6.7	2.5	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.4	4.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	1.7	0.0	0.0	0.0	0.0	0.8	0.8	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)