

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: P452245

Luminaire Tested: **GALN-SA3A-830-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452245
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-SA3A-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 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: 7812 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 93
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



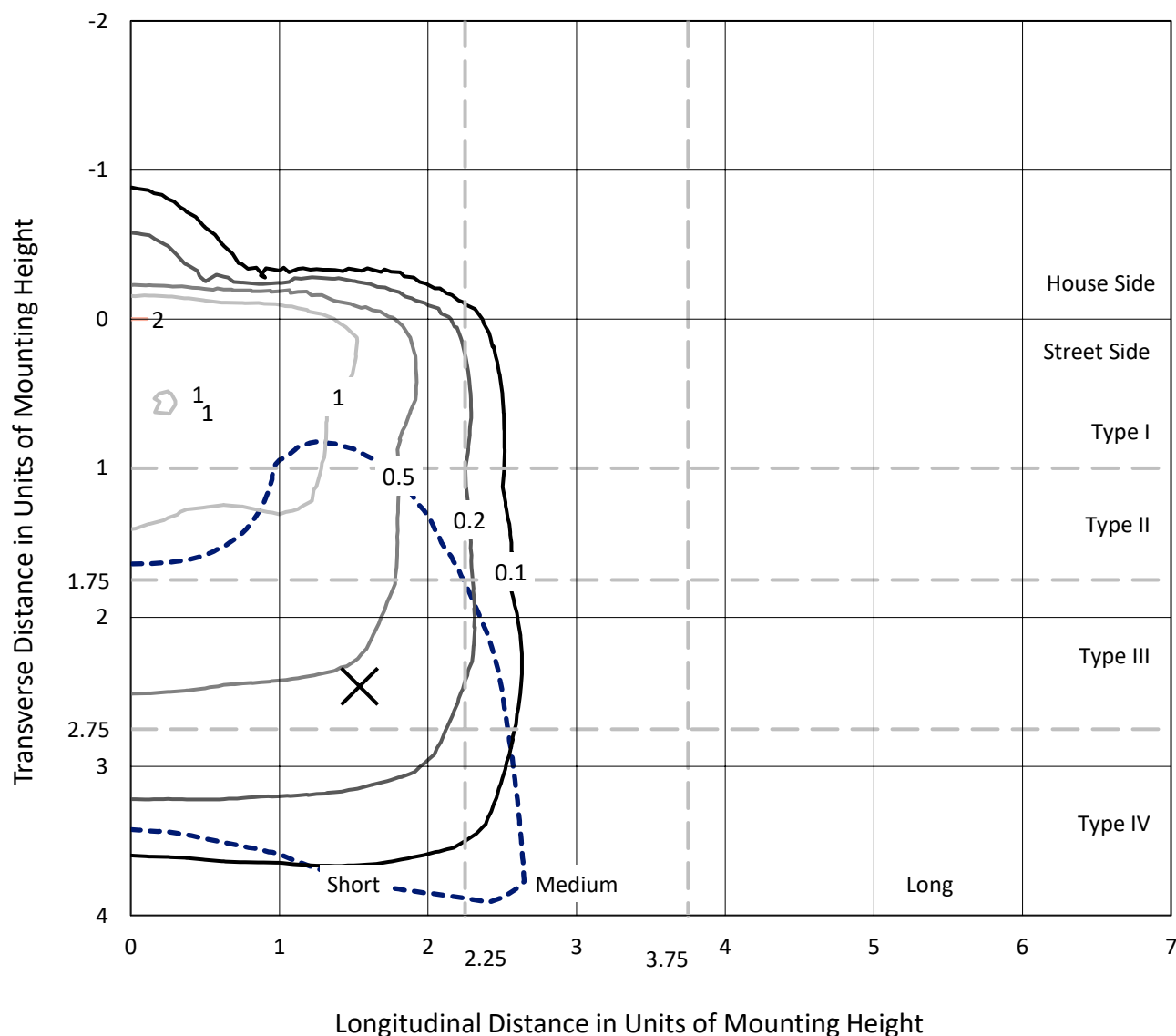
REPORT NUMBER: P452245

CATALOG NUMBER: GALN-SA3A-830-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

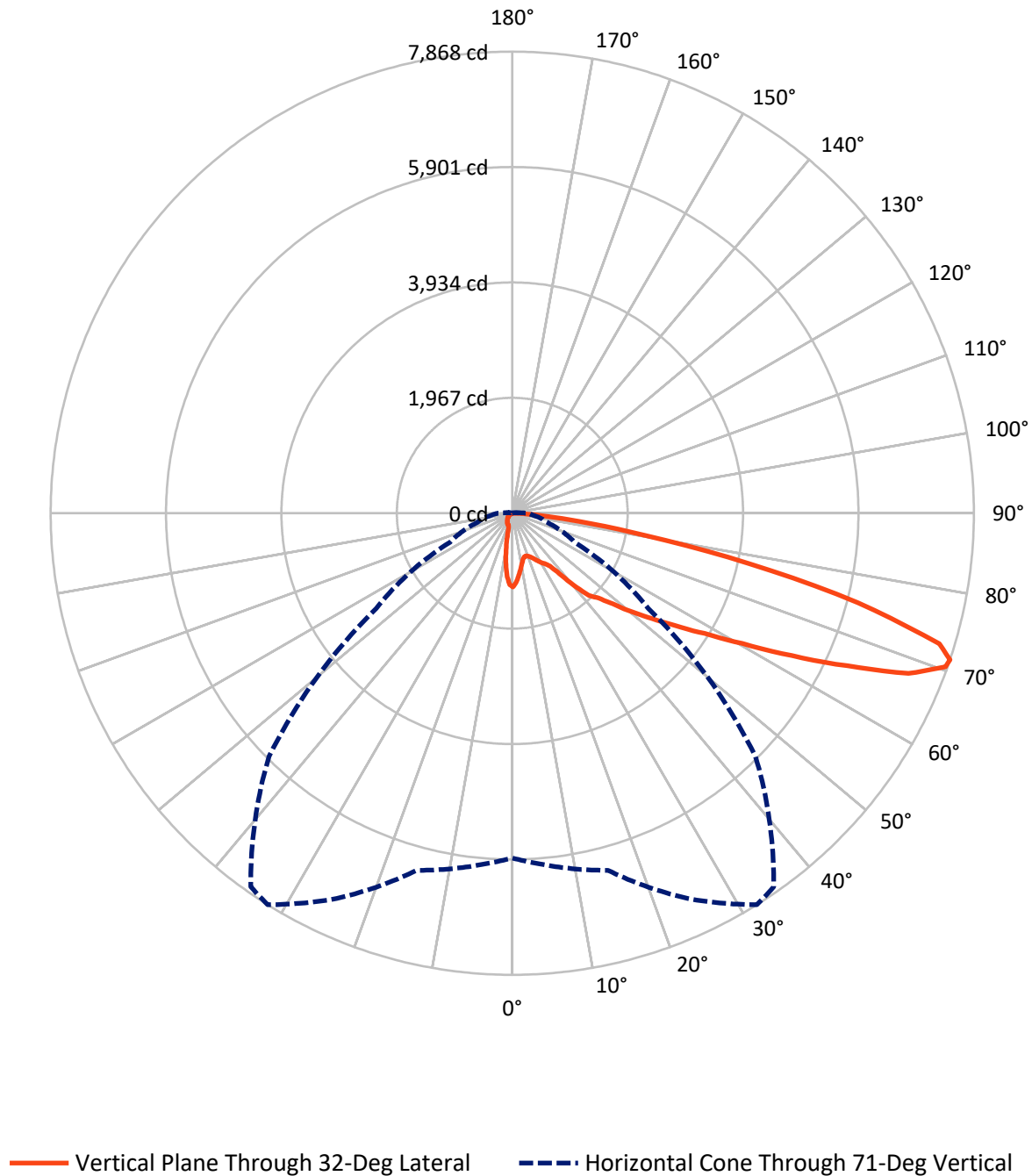


Based on 25 foot mounting height. Maximum calculated value = 2 fc

Type IV - Short - N/A

REPORT NUMBER: P452245
CATALOG NUMBER: GALN-SA3A-830-U-T4FT-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	654.3	0.0	654.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	7157.7	0.0	7157.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	7812.0	0.0	7812.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	1.3
10°-20°	221.7	2.8
20°-30°	344.9	4.4
30°-40°	574.6	7.4
40°-50°	1068.9	13.7
50°-60°	1716.1	22.0
60°-70°	2308.3	29.5
70°-80°	1369.5	17.5
80°-90°	105.9	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°	7812.0	100.0
0°-180°	7812.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452245

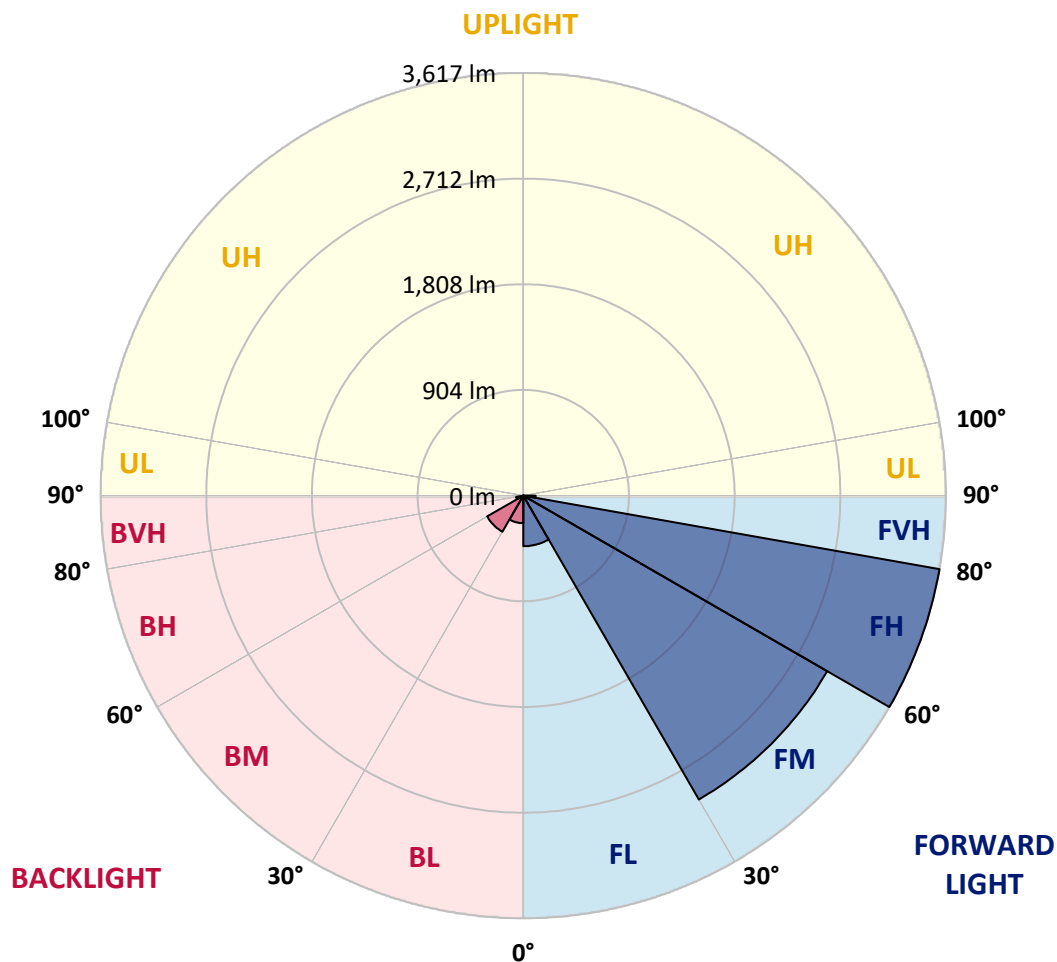
CATALOG NUMBER: GALN-SA3A-830-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	433.0	5.5			
FM	(30°-60°)	3002.6	38.4			
FH	(60°-80°)	3616.6	46.3			G2/5000
FVH	(80°-90°)	105.5	1.3			G2/225
BL	(0°-30°)	235.8	3.0	B1/500		
BM	(30°-60°)	357.0	4.6	B1/1000		
BH	(60°-80°)	61.2	0.8	B0/110		G0/110
BVH	(80°-90°)	0.4	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





REPORT NUMBER: P452245

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1256.3	1256.3	1256.3	1256.3	1256.3	1256.3	1256.3	1256.3	1256.3	1256.3	1256.3
2.5°	1165.1	1177.1	1175.3	1179.5	1189.7	1193.9	1205.3	1217.9	1235.3	1247.3	1255.1
5°	1043.4	1052.4	1053.6	1074.6	1084.8	1096.2	1129.8	1166.3	1207.1	1239.5	1261.1
7.5°	913.3	918.1	927.7	955.3	981.0	992.4	1043.4	1107.0	1171.1	1231.7	1270.7
10°	805.9	811.3	828.7	858.1	882.1	897.1	967.9	1047.6	1137.6	1227.5	1284.5
12.5°	744.8	747.8	754.4	780.8	811.3	827.5	903.7	994.8	1110.6	1229.3	1307.9
15°	740.6	739.4	731.6	742.4	770.0	786.8	861.1	958.9	1086.6	1235.3	1335.4
17.5°	762.8	759.8	741.2	741.2	764.0	777.8	843.1	939.7	1074.6	1249.1	1374.4
20°	797.0	792.2	761.6	759.2	781.4	795.8	853.9	940.9	1077.0	1274.9	1426.6
22.5°	840.1	834.7	788.6	789.8	813.7	828.1	885.1	962.5	1092.0	1306.7	1482.4
25°	896.5	890.5	835.9	833.5	858.7	871.3	931.3	1000.8	1113.0	1346.2	1555.5
27.5°	971.5	958.9	893.5	889.9	916.9	933.1	987.0	1052.4	1150.2	1400.8	1653.9
30°	1033.2	1019.4	957.1	947.5	976.2	988.8	1044.6	1122.0	1223.3	1496.2	1790.0
32.5°	1114.2	1093.8	1020.6	995.4	1026.0	1042.2	1128.0	1251.5	1331.8	1596.9	1951.9
35°	1296.5	1283.9	1194.5	1106.4	1104.6	1125.0	1250.9	1382.2	1443.4	1754.0	2172.6
37.5°	1557.3	1548.3	1453.6	1335.4	1301.3	1291.7	1400.2	1526.1	1621.5	1969.9	2429.2
40°	1860.2	1839.2	1752.2	1652.1	1607.7	1579.5	1576.5	1740.2	1854.2	2263.1	2696.7
42.5°	2077.2	2038.9	1933.3	1926.1	1916.5	1887.1	1802.0	2053.2	2154.6	2578.5	2982.7
45°	2305.1	2246.9	2089.8	2062.8	2059.2	2057.4	2142.6	2423.8	2482.0	2920.4	3276.6
47.5°	2482.0	2435.8	2306.9	2294.9	2309.9	2350.7	2592.9	2817.2	2805.2	3225.0	3523.0
50°	2717.7	2682.9	2539.6	2562.4	2639.7	2706.3	3100.9	3246.0	3070.9	3464.8	3702.3
52.5°	2995.9	2931.7	2798.6	2860.4	2979.1	3090.1	3639.9	3621.4	3257.4	3645.3	3836.0
55°	3237.0	3191.4	3145.8	3210.0	3387.5	3526.0	4126.9	3902.6	3392.9	3790.5	3894.8
57.5°	3644.7	3634.0	3587.2	3652.5	3867.8	4011.7	4562.8	4120.9	3479.8	3866.0	3825.8
60°	4248.0	4230.6	4143.7	4227.0	4507.7	4733.7	4964.6	4317.0	3499.6	3836.6	3627.4
62.5°	4973.6	4914.2	4839.9	4962.8	5347.8	5447.3	5343.0	4433.3	3425.9	3602.8	3148.8
65°	5651.2	5590.0	5591.8	5850.9	6270.1	6337.8	5784.3	4415.9	3210.0	3016.9	2322.5
67.5°	6169.9	6159.7	6232.9	6738.4	7286.5	7239.7	6178.9	4155.7	2570.2	1955.5	1234.1
70°	6196.3	6216.1	6426.0	7279.3	7835.8	7761.4	6145.3	3377.9	1602.3	899.5	486.3
71°	5877.3	6010.4	6300.6	7262.5	7868.2	7771.6	5862.3	2829.2	1175.3	627.2	350.8
72.5°	5008.4	5078.5	5705.8	6834.9	7612.1	7405.8	5144.5	1983.1	752.6	383.8	201.5
75°	2758.4	2931.1	3821.0	5362.2	6088.4	5907.3	3352.7	942.1	375.4	209.9	83.4
77.5°	1313.3	1279.7	1864.3	3189.0	4128.1	4118.5	1689.2	418.6	218.9	142.1	42.0
80°	375.4	422.2	713.6	1515.9	2291.9	2317.1	648.8	202.1	151.7	110.9	21.6
82.5°	113.3	115.7	262.1	670.4	1140.0	1074.6	243.5	103.1	109.1	88.2	12.6
85°	19.8	24.6	77.4	236.3	434.8	329.8	61.2	49.2	72.0	58.2	7.2
87.5°	1.2	1.8	25.8	27.0	38.4	22.2	10.8	7.2	15.6	15.6	4.2
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°	1256.3	1256.3	1256.3	1256.3	1256.3	1256.3	1256.3	1256.3	1256.3	1256.3	1256.3
2.5°	1260.5	1264.1	1261.7	1256.3	1247.3	1236.5	1222.1	1210.1	1199.9	1194.5	1201.1
5°	1268.3	1273.1	1261.1	1234.1	1193.3	1149.0	1098.6	1059.6	1029.0	1019.4	1015.8
7.5°	1280.3	1283.3	1250.9	1190.9	1104.6	999.6	907.9	830.5	770.6	752.6	726.2
10°	1295.9	1294.1	1232.9	1121.4	969.7	811.9	669.8	564.3	484.5	455.7	453.3
12.5°	1319.9	1310.3	1210.1	1026.6	808.9	602.7	427.0	334.0	283.6	266.8	263.3
15°	1349.8	1327.1	1174.1	915.7	619.5	389.2	263.3	235.1	228.5	227.3	226.1
17.5°	1385.2	1349.2	1126.8	779.6	435.4	252.5	220.1	219.5	220.1	218.9	218.3
20°	1433.2	1372.6	1070.4	618.3	287.8	212.9	209.9	209.9	210.5	209.9	209.9
22.5°	1484.2	1400.2	1000.8	471.9	217.1	202.1	201.5	202.7	203.9	203.3	203.3
25°	1547.1	1436.2	909.1	323.2	194.3	193.1	193.7	196.1	198.5	199.1	198.5
27.5°	1638.3	1480.6	810.7	222.5	178.1	179.3	185.3	191.3	194.9	195.5	195.5
30°	1740.8	1529.7	682.4	180.5	164.9	164.9	172.1	183.5	191.3	192.5	193.1
32.5°	1872.7	1586.7	540.3	162.5	152.3	151.1	157.7	171.5	185.9	190.1	190.1
35°	2035.9	1653.9	401.8	151.1	143.3	140.3	143.9	155.3	173.9	185.9	187.1
37.5°	2227.1	1717.4	293.8	140.9	134.9	130.7	133.1	142.1	157.1	175.1	179.9
40°	2404.0	1773.8	219.5	132.5	126.5	123.5	125.3	129.5	142.1	158.9	161.9
42.5°	2597.1	1817.6	174.5	123.5	118.1	116.9	116.9	118.7	127.1	136.7	137.3
45°	2789.6	1833.2	146.3	112.7	109.1	110.3	109.7	108.5	112.1	110.9	110.9
47.5°	2926.9	1814.6	121.1	102.5	102.5	104.3	101.3	97.1	95.3	88.2	88.7
50°	3021.1	1746.8	99.5	90.5	95.3	97.7	91.7	85.2	78.6	70.8	69.0
52.5°	3060.1	1626.3	81.6	75.0	84.6	87.6	80.4	72.6	62.4	55.8	54.0
55°	3034.9	1477.6	67.8	61.2	71.4	75.0	67.8	58.8	47.4	40.2	39.0
57.5°	2924.0	1300.1	57.6	48.6	57.0	59.4	54.6	45.0	33.6	26.4	26.4
60°	2732.1	1116.6	46.8	38.4	42.6	46.2	41.4	32.4	22.8	16.2	15.0
62.5°	2342.9	906.7	37.8	30.0	30.0	33.0	28.8	23.4	14.4	8.4	7.8
65°	1691.6	621.8	30.0	22.2	21.6	21.6	18.0	15.6	8.4	3.6	2.4
67.5°	919.3	350.8	24.0	16.8	15.0	14.4	11.4	9.0	3.6	0.6	0.0
70°	361.6	134.9	18.6	11.4	9.6	9.0	6.0	4.2	2.4	0.0	0.0
71°	245.3	92.9	16.2	9.6	7.8	6.6	4.8	3.6	1.8	0.0	0.0
72.5°	140.3	57.6	12.6	7.2	6.0	4.8	3.6	2.4	1.8	0.0	0.0
75°	61.2	29.4	7.8	5.4	4.2	3.0	2.4	1.8	0.6	0.0	0.0
77.5°	31.2	16.2	5.4	4.2	2.4	1.8	1.2	0.6	0.0	0.0	0.0
80°	17.4	8.4	3.6	2.4	1.8	1.2	0.6	0.6	0.0	0.0	0.0
82.5°	9.6	4.8	1.8	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.0	3.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	1.2	0.0	0.0	0.0	0.0	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)