

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: P452705

Luminaire Tested: **GALN-SA3C-830-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12244 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 160
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



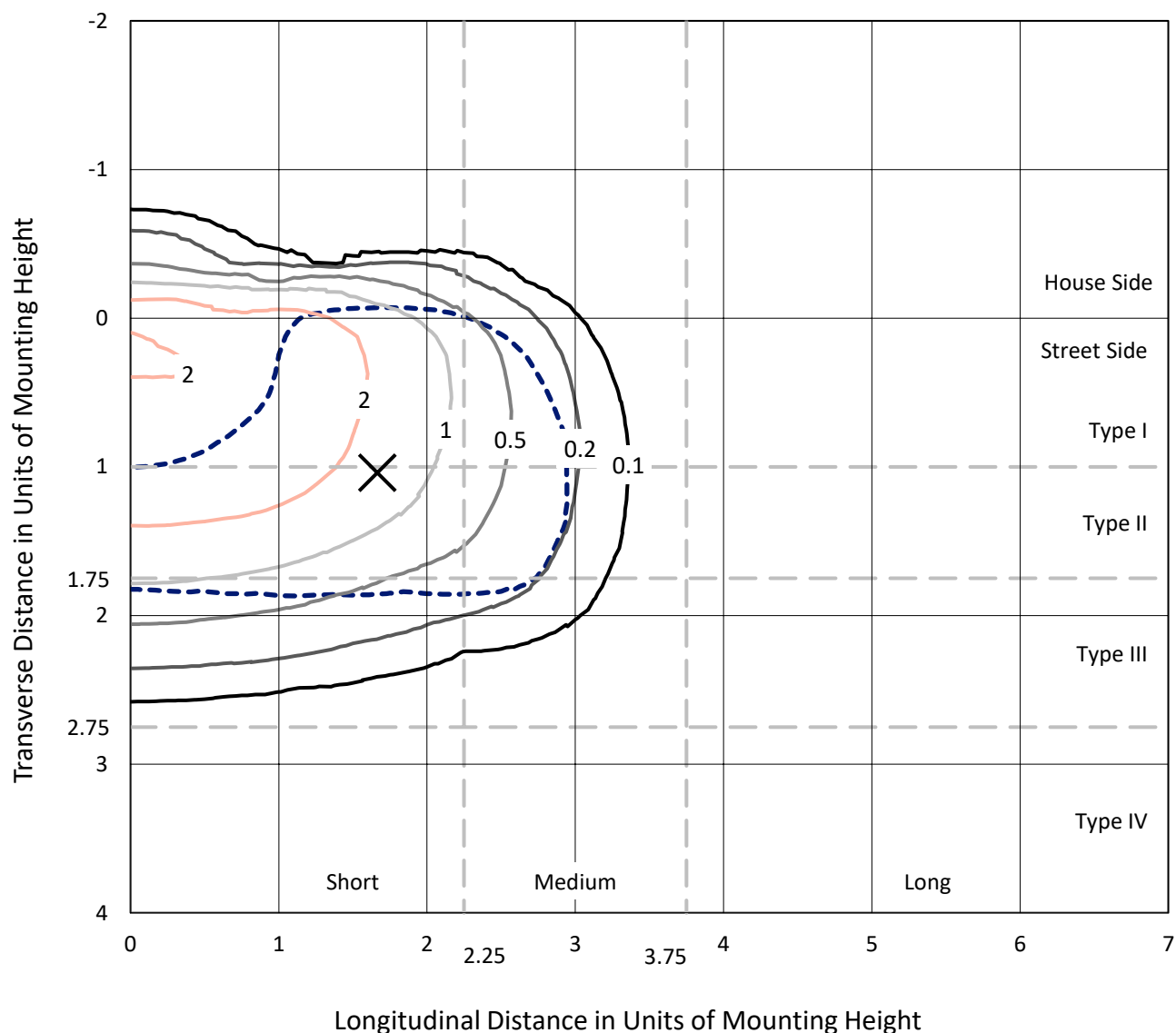
REPORT NUMBER: P452705

CATALOG NUMBER: GALN-SA3C-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

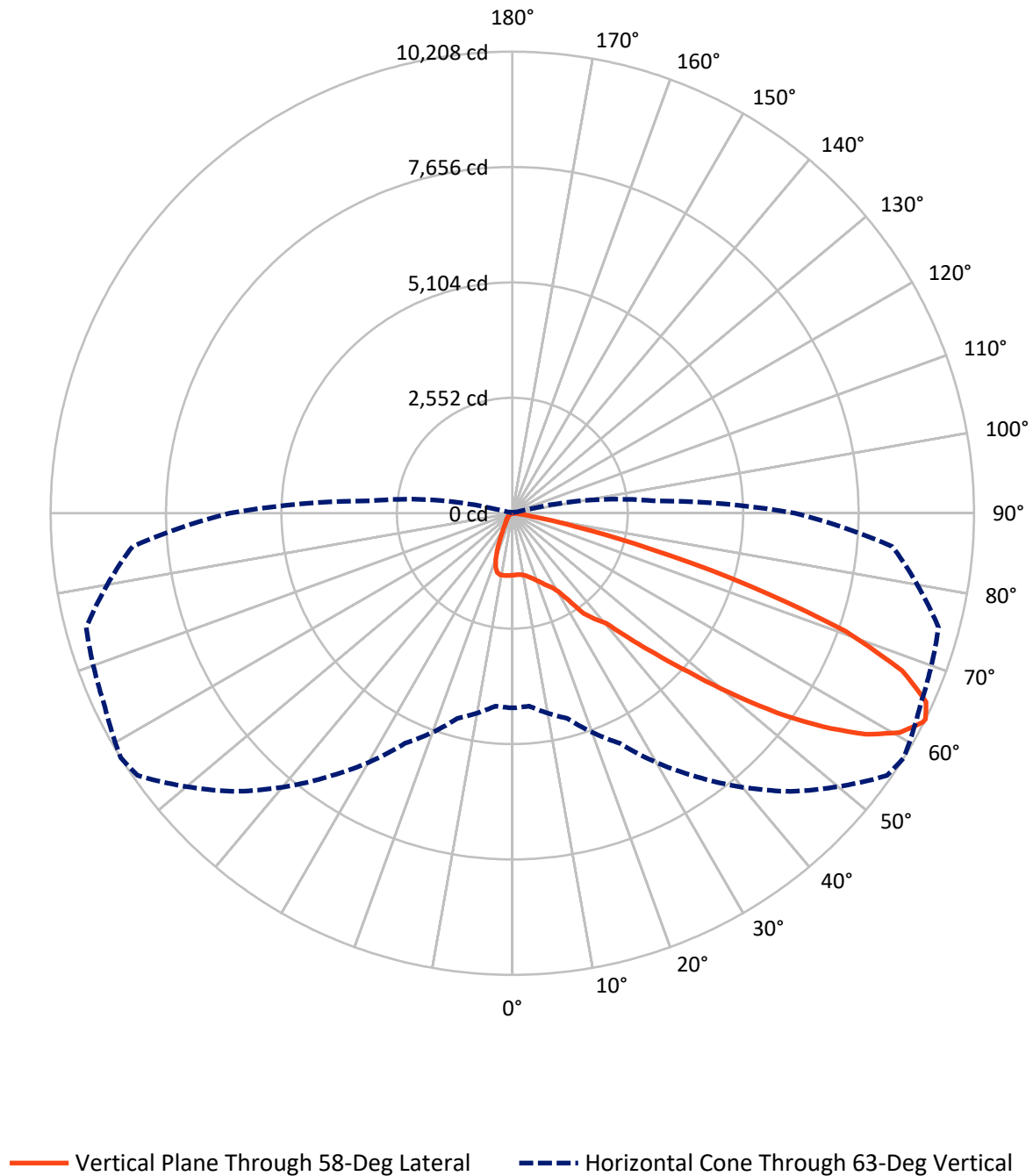


Based on 25 foot mounting height. Maximum calculated value = 3 fc
Type III - Short - N/A

REPORT NUMBER: P452705

CATALOG NUMBER: GALN-SA3C-830-U-T3-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1267.8	0.0	1267.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	10976.2	0.0	10976.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	12244.0	0.0	12244.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.3	1.0
10°-20°	349.5	2.9
20°-30°	606.6	5.0
30°-40°	1114.7	9.1
40°-50°	2098.3	17.1
50°-60°	3589.0	29.3
60°-70°	3436.5	28.1
70°-80°	876.3	7.2
80°-90°	44.8	0.4
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°	12244.0	100.0
0°-180°	12244.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452705

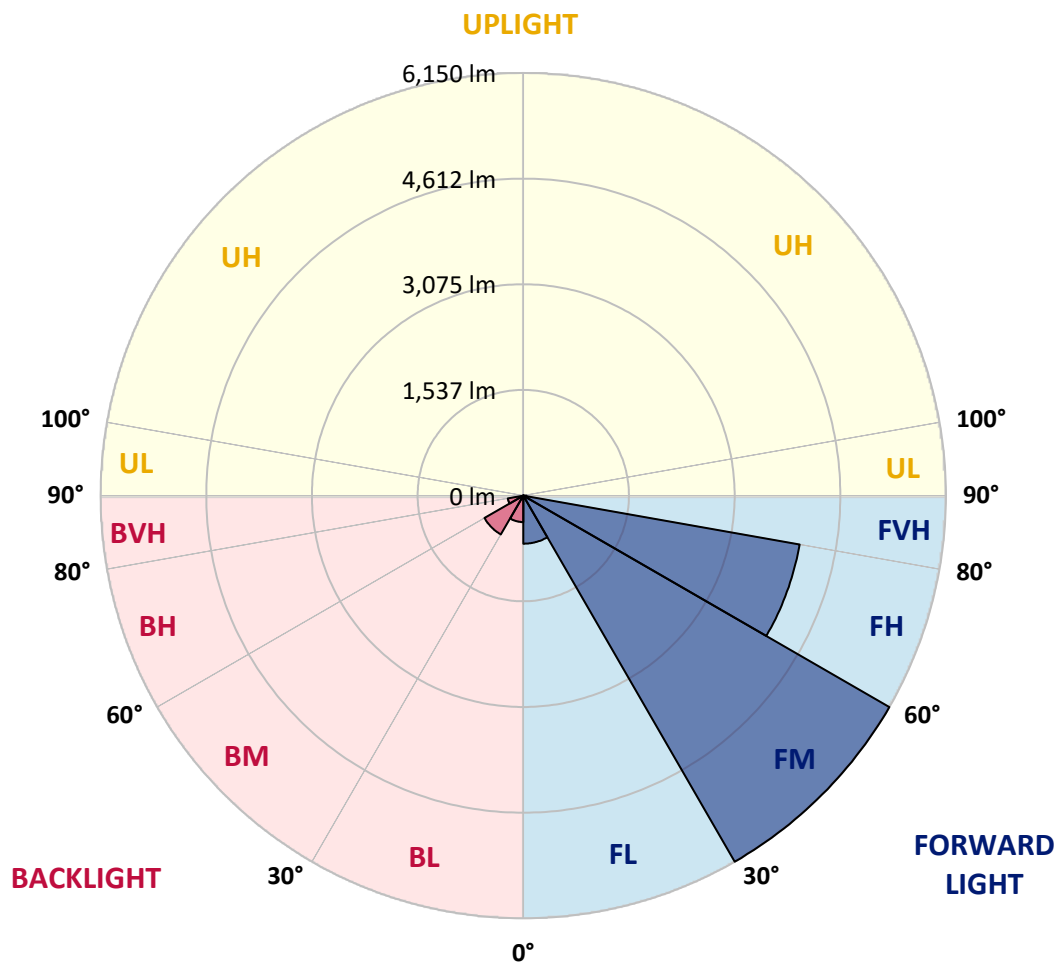
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	699.9	5.7			
FM	(30°-60°)	6149.9	50.2			
FH	(60°-80°)	4083.3	33.3			G2/5000
FVH	(80°-90°)	43.1	0.4			G1/100
BL	(0°-30°)	384.5	3.1	B1/500		
BM	(30°-60°)	652.1	5.3	B1/1000		
BH	(60°-80°)	229.5	1.9	B1/500		G1/500
BVH	(80°-90°)	1.7	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 III Short





REPORT NUMBER: P452705

CATALOG NUMBER: GALN-SA3C-830-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8
2.5°	1336.7	1341.3	1345.9	1347.7	1354.2	1360.6	1365.2	1364.3	1371.7	1375.4	1375.4
5°	1283.2	1283.2	1295.2	1306.2	1324.7	1343.1	1360.6	1364.3	1378.1	1391.0	1395.7
7.5°	1238.0	1240.8	1250.0	1270.3	1295.2	1327.4	1362.5	1370.8	1394.7	1423.3	1435.3
10°	1216.8	1218.7	1230.6	1251.8	1283.2	1327.4	1376.3	1392.0	1428.8	1474.0	1490.6
12.5°	1212.2	1215.0	1227.0	1250.9	1286.9	1340.3	1406.7	1423.3	1476.8	1534.8	1559.7
15°	1220.5	1222.3	1234.3	1260.1	1299.8	1363.4	1447.3	1470.3	1533.9	1601.2	1633.5
17.5°	1250.0	1248.2	1256.5	1277.7	1321.9	1392.0	1496.1	1523.8	1598.5	1690.6	1711.8
20°	1375.4	1363.4	1356.0	1337.6	1355.1	1432.5	1555.1	1595.7	1687.9	1781.9	1796.6
22.5°	1645.5	1618.7	1566.2	1494.3	1439.0	1487.8	1626.1	1673.1	1792.0	1884.2	1884.2
25°	1989.3	1955.2	1902.7	1745.9	1610.4	1579.1	1706.3	1765.3	1905.4	1998.5	1968.1
27.5°	2419.8	2393.1	2290.8	2108.2	1900.8	1738.6	1799.4	1853.8	2005.9	2118.4	2054.8
30°	2770.1	2757.2	2673.3	2510.1	2281.5	2044.6	1972.7	2008.7	2139.6	2269.5	2204.1
32.5°	3066.0	3066.0	2980.3	2828.2	2614.3	2404.1	2266.8	2292.6	2418.0	2568.2	2446.5
35°	3391.4	3380.4	3311.2	3166.5	2926.8	2741.5	2685.3	2720.3	2833.7	2945.3	2645.7
37.5°	3733.4	3729.7	3657.8	3517.7	3322.3	3089.1	2957.2	2966.5	3024.5	3092.7	2878.9
40°	4104.9	4110.4	4016.4	3929.8	3745.4	3506.6	3254.1	3196.0	3250.4	3443.0	3309.4
42.5°	4543.7	4530.8	4490.2	4372.2	4223.8	4080.9	3777.7	3756.5	3804.4	4010.9	3866.2
45°	5053.5	5071.9	5001.9	4936.4	4836.8	4717.9	4464.4	4427.6	4480.1	4800.9	4595.3
47.5°	5564.2	5546.7	5591.8	5579.8	5633.3	5544.8	5320.8	5245.2	5371.5	5675.7	5373.4
50°	5953.2	5972.5	6066.6	6203.9	6433.5	6483.2	6268.5	6242.6	6298.9	6494.3	6069.3
52.5°	6205.8	6270.3	6417.8	6770.9	7184.8	7506.5	7343.3	7329.5	7306.4	7359.0	6734.9
55°	6370.8	6436.2	6628.9	7148.8	7861.4	8384.1	8392.4	8333.4	8181.3	8143.5	7357.1
57.5°	6269.4	6282.3	6557.0	7252.0	8236.6	9010.0	9281.0	9222.0	8940.8	8798.0	7906.5
60°	5635.2	5661.9	6044.4	6861.2	8073.4	9214.6	9870.0	9843.3	9535.4	9374.1	8334.3
62.5°	4511.4	4588.9	4982.5	5893.3	7314.7	8869.9	10108.8	10184.4	9944.7	9722.6	8468.9
63°	4305.0	4280.1	4695.8	5611.2	7113.8	8699.3	10112.5	10208.4	9963.2	9755.7	8432.0
65°	3186.8	3261.4	3531.5	4424.8	5920.0	7905.6	9884.8	10054.4	9894.9	9609.2	8023.6
67.5°	1789.3	1785.6	2084.3	2895.5	4143.6	6201.2	8938.1	9296.7	9263.5	8622.8	6651.0
70°	875.7	889.6	1012.2	1500.7	2403.2	4278.2	7427.2	7814.4	7826.3	6772.7	4599.0
72.5°	396.4	402.8	490.4	731.0	1235.3	2277.8	5118.0	5487.7	5419.4	4316.0	2539.6
75°	209.3	223.1	270.1	367.8	595.5	939.3	2783.9	3141.6	2998.7	1971.8	934.7
77.5°	154.9	159.5	183.4	234.1	319.0	366.0	1201.1	1428.8	1338.5	713.5	309.7
80°	113.4	117.1	136.4	165.9	201.0	186.2	452.6	519.0	465.5	242.4	94.9
82.5°	69.1	70.1	99.6	123.5	126.3	104.2	149.3	160.4	167.8	136.4	51.6
85°	24.9	31.3	67.3	89.4	74.7	52.5	62.7	69.1	75.6	86.7	30.4
87.5°	2.8	3.7	32.3	43.3	21.2	19.4	23.0	25.8	27.7	32.3	14.7
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: P452705

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8
2.5°	1379.1	1382.7	1380.0	1375.4	1374.5	1371.7	1366.2	1366.2	1366.2	1368.0	1366.2
5°	1399.3	1402.1	1395.7	1386.4	1376.3	1363.4	1349.6	1341.3	1340.3	1338.5	1333.9
7.5°	1438.1	1441.7	1427.0	1404.9	1377.2	1345.9	1316.4	1288.7	1275.8	1265.7	1265.7
10°	1494.3	1498.0	1468.5	1428.8	1373.5	1309.9	1239.9	1176.3	1126.5	1103.4	1097.9
12.5°	1561.6	1563.4	1514.6	1445.4	1354.2	1231.6	1082.2	943.0	846.2	802.0	797.4
15°	1635.3	1622.4	1557.9	1451.9	1298.9	1070.2	812.1	641.6	541.1	511.6	522.7
17.5°	1710.0	1686.0	1591.1	1441.7	1174.4	812.1	545.7	437.9	406.5	398.2	398.2
20°	1780.1	1746.9	1615.0	1397.5	958.7	559.6	404.7	378.9	373.3	367.8	368.7
22.5°	1850.1	1799.4	1636.3	1298.9	714.4	400.1	362.3	354.0	346.6	339.2	338.3
25°	1918.3	1848.3	1644.5	1116.3	486.7	343.8	330.9	319.9	305.1	296.8	295.0
27.5°	1989.3	1907.3	1639.0	885.9	354.9	307.9	295.0	279.3	261.8	247.1	247.1
30°	2125.7	2019.7	1619.7	637.0	298.7	271.0	254.4	229.5	210.2	195.4	194.5
32.5°	2312.0	2166.3	1553.3	448.0	265.5	238.8	213.9	186.2	165.9	154.9	154.9
35°	2477.9	2313.8	1428.8	330.0	238.8	207.4	177.0	150.3	134.6	127.2	124.4
37.5°	2730.5	2529.5	1257.4	268.3	212.9	179.8	148.4	123.5	110.6	105.1	105.1
40°	3109.3	2793.1	1047.2	235.1	188.1	153.0	123.5	104.2	94.0	87.6	87.6
42.5°	3579.5	3115.8	834.3	211.1	165.0	131.8	103.2	88.5	79.3	74.7	73.7
45°	4171.3	3455.9	642.5	189.0	146.6	112.5	87.6	74.7	65.5	62.7	63.6
47.5°	4788.9	3755.5	497.8	169.6	127.2	94.9	74.7	64.5	58.1	54.4	54.4
50°	5316.2	3962.0	378.0	147.5	112.5	80.2	65.5	58.1	52.5	50.7	49.8
52.5°	5756.8	4022.0	289.5	128.1	98.6	69.1	58.1	52.5	47.9	45.2	45.2
55°	6132.0	3969.4	226.8	107.9	83.0	59.9	51.6	47.0	41.5	38.7	37.8
57.5°	6351.4	3800.7	173.3	89.4	67.3	49.8	45.2	39.6	33.2	28.6	28.6
60°	6462.0	3555.5	132.7	73.7	51.6	39.6	36.9	29.5	23.0	19.4	18.4
62.5°	6329.3	3230.1	100.5	58.1	38.7	29.5	24.9	21.2	14.7	11.1	11.1
63°	6247.3	3136.1	96.8	55.3	36.0	27.7	23.0	19.4	12.9	10.1	9.2
65°	5695.1	2725.9	79.3	44.2	28.6	19.4	15.7	13.8	9.2	4.6	3.7
67.5°	4522.5	2085.2	62.7	33.2	20.3	13.8	9.2	8.3	2.8	0.0	0.0
70°	3057.7	1346.8	48.9	24.0	13.8	8.3	4.6	3.7	0.9	0.0	0.0
72.5°	1594.8	690.5	37.8	17.5	8.3	5.5	2.8	0.9	0.0	0.0	0.0
75°	564.2	235.1	27.7	11.1	5.5	2.8	0.9	0.0	0.0	0.0	0.0
77.5°	170.5	87.6	17.5	8.3	3.7	1.8	0.0	0.0	0.0	0.0	0.0
80°	59.9	32.3	10.1	5.5	2.8	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	29.5	15.7	6.5	4.6	2.8	0.9	0.0	0.0	0.0	0.0	0.0
85°	16.6	10.1	5.5	4.6	2.8	1.8	0.0	0.0	0.0	0.0	0.0
87.5°	12.0	7.4	5.5	4.6	3.7	1.8	0.9	0.0	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)