

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: P451632

Luminaire Tested: **GALN-SA2C-730-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451632
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-SA2C-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 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: 9453 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

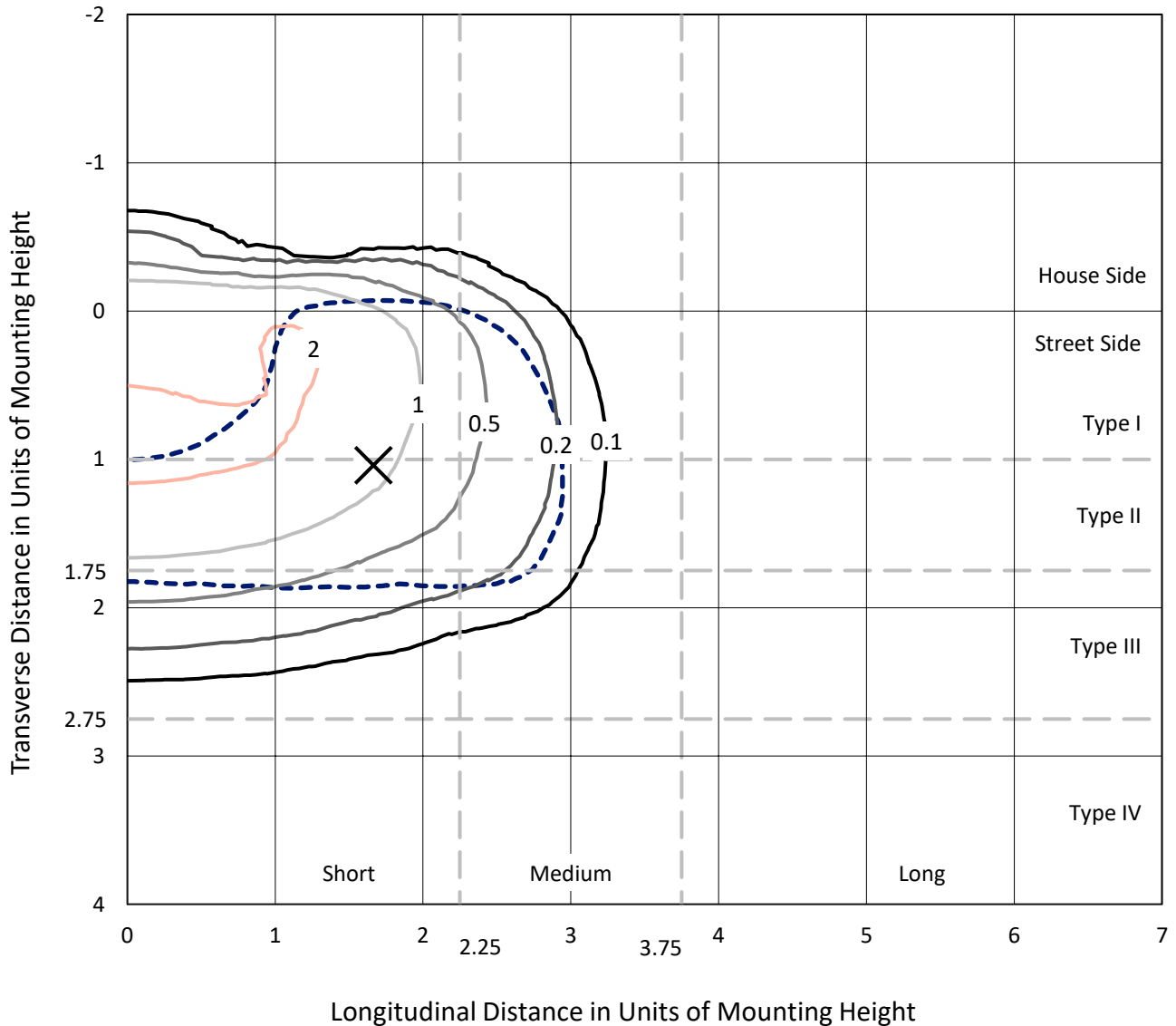
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

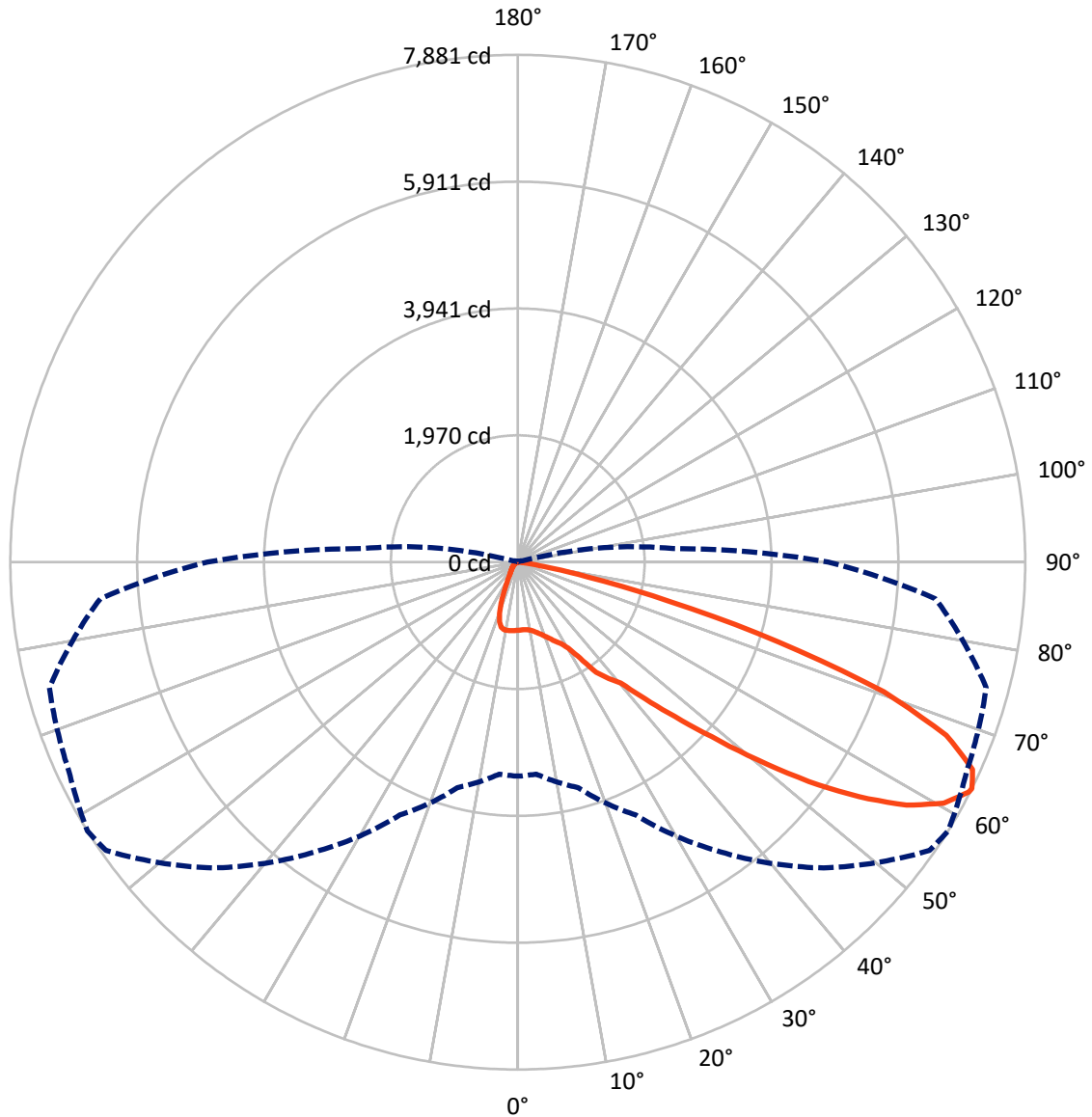
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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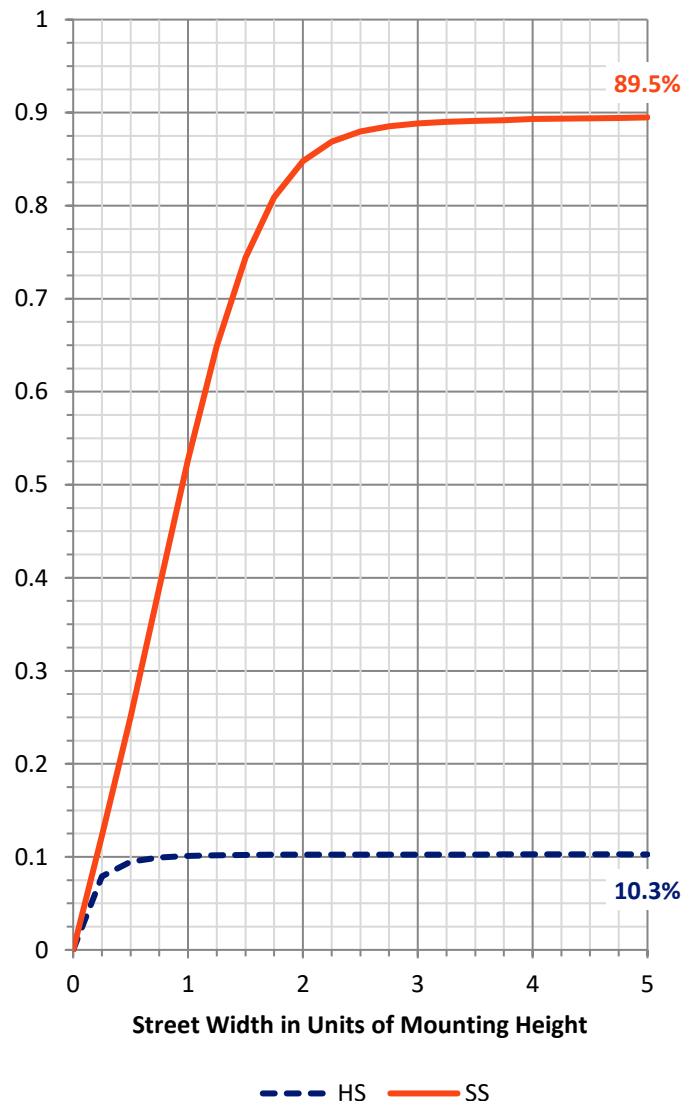
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	978.8	0.0	978.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	8474.2	0.0	8474.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	9453.0	0.0	9453.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.1	1.0
10°-20°	269.8	2.9
20°-30°	468.3	5.0
30°-40°	860.6	9.1
40°-50°	1620.0	17.1
50°-60°	2770.9	29.3
60°-70°	2653.1	28.1
70°-80°	676.6	7.2
80°-90°	34.6	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°	9453.0	100.0
0°-180°	9453.0	100.0



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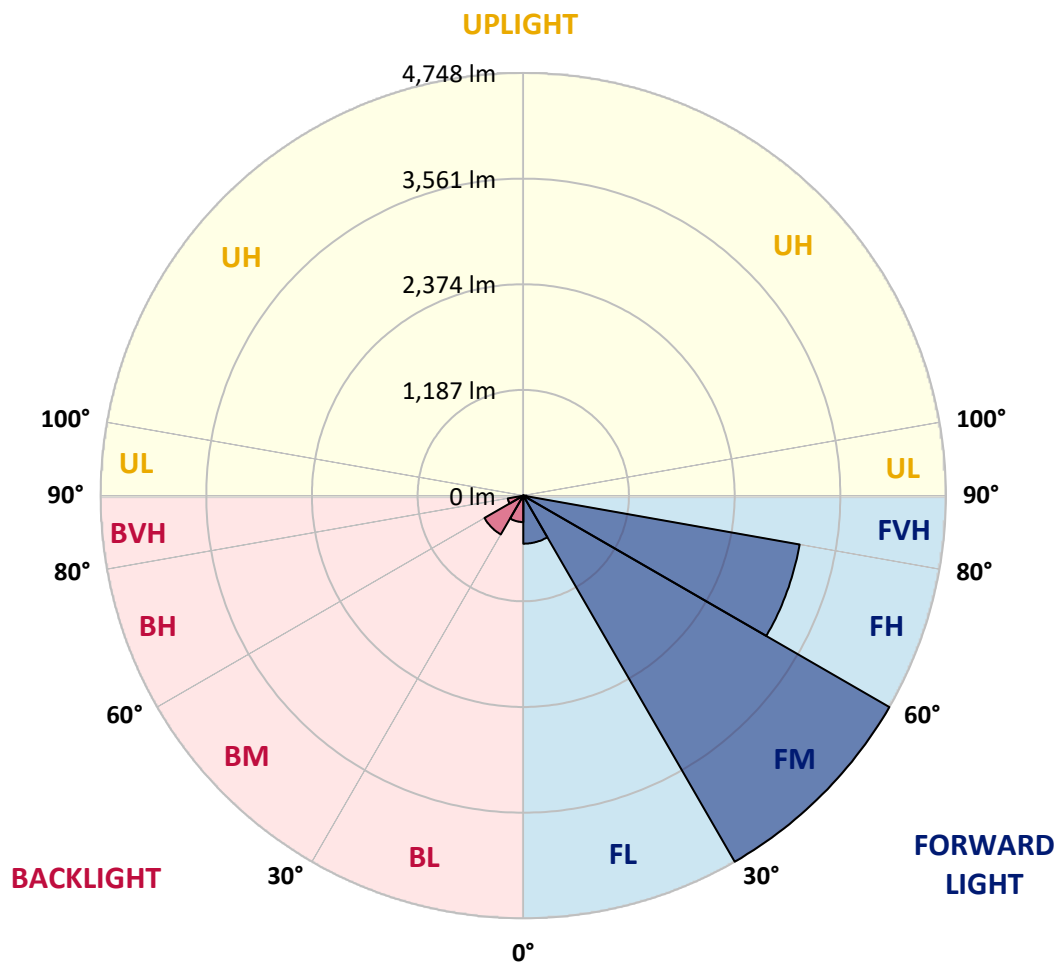
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	540.4	5.7			
FM (30°-60°)	4748.1	50.2			
FH (60°-80°)	3152.5	33.3			G2/5000
FVH (80°-90°)	33.3	0.4			G1/100
BL (0°-30°)	296.8	3.1	B1/500		
BM (30°-60°)	503.4	5.3	B1/1000		
BH (60°-80°)	177.2	1.9	B1/500		G1/500
BVH (80°-90°)	1.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1058.3	1058.3	1058.3	1058.3	1058.3	1058.3	1058.3	1058.3	1058.3	1058.3	1058.3
2.5°	1032.0	1035.5	1039.1	1040.5	1045.5	1050.5	1054.0	1053.3	1059.0	1061.9	1061.9
5°	990.7	990.7	999.9	1008.5	1022.7	1036.9	1050.5	1053.3	1064.0	1074.0	1077.5
7.5°	955.8	958.0	965.1	980.7	999.9	1024.8	1051.9	1058.3	1076.8	1098.9	1108.1
10°	939.4	940.9	950.1	966.5	990.7	1024.8	1062.6	1074.7	1103.1	1138.0	1150.8
12.5°	935.9	938.0	947.3	965.8	993.5	1034.8	1086.1	1098.9	1140.1	1185.0	1204.2
15°	942.3	943.7	953.0	972.9	1003.5	1052.6	1117.4	1135.2	1184.3	1236.2	1261.1
17.5°	965.1	963.6	970.0	986.4	1020.6	1074.7	1155.1	1176.4	1234.1	1305.3	1321.6
20°	1061.9	1052.6	1046.9	1032.7	1046.2	1106.0	1200.6	1232.0	1303.1	1375.7	1387.1
22.5°	1270.4	1249.7	1209.2	1153.7	1111.0	1148.7	1255.4	1291.7	1383.5	1454.7	1454.7
25°	1535.9	1509.5	1469.0	1348.0	1243.3	1219.1	1317.4	1362.9	1471.1	1543.0	1519.5
27.5°	1868.2	1847.6	1768.6	1627.7	1467.5	1342.3	1389.2	1431.2	1548.7	1635.5	1586.4
30°	2138.7	2128.7	2063.9	1938.0	1761.5	1578.6	1523.0	1550.8	1651.9	1752.2	1701.7
32.5°	2367.1	2367.1	2300.9	2183.5	2018.4	1856.1	1750.1	1770.0	1866.8	1982.8	1888.9
35°	2618.3	2609.8	2556.4	2444.7	2259.7	2116.6	2073.2	2100.2	2187.8	2273.9	2042.6
37.5°	2882.4	2879.5	2824.0	2715.9	2565.0	2384.9	2283.1	2290.3	2335.1	2387.8	2222.6
40°	3169.2	3173.5	3100.9	3034.0	2891.6	2707.3	2512.3	2467.5	2509.5	2658.2	2555.0
42.5°	3508.0	3498.0	3466.7	3375.6	3261.0	3150.7	2916.6	2900.2	2937.2	3096.6	2984.9
45°	3901.5	3915.8	3861.7	3811.2	3734.3	3642.5	3446.8	3418.3	3458.9	3706.5	3547.8
47.5°	4295.8	4282.3	4317.2	4307.9	4349.2	4280.9	4107.9	4049.6	4147.1	4381.9	4148.5
50°	4596.2	4611.1	4683.7	4789.8	4967.0	5005.4	4839.6	4819.6	4863.1	5013.9	4685.8
52.5°	4791.2	4841.0	4954.9	5227.4	5547.0	5795.4	5669.4	5658.7	5640.9	5681.5	5199.7
55°	4918.6	4969.1	5117.8	5519.2	6069.4	6472.9	6479.3	6433.8	6316.3	6287.2	5680.1
57.5°	4840.3	4850.2	5062.3	5599.0	6359.1	6956.2	7165.4	7119.9	6902.8	6792.5	6104.3
60°	4350.6	4371.3	4666.6	5297.2	6233.1	7114.2	7620.2	7599.5	7361.8	7237.3	6434.5
62.5°	3483.1	3542.8	3846.7	4549.9	5647.4	6848.0	7804.5	7862.9	7677.8	7506.3	6538.4
63°	3323.6	3304.4	3625.4	4332.1	5492.2	6716.3	7807.4	7881.4	7692.1	7531.9	6509.9
65°	2460.4	2518.0	2726.5	3416.2	4570.5	6103.6	7631.6	7762.5	7639.4	7418.8	6194.6
67.5°	1381.4	1378.6	1609.2	2235.5	3199.1	4787.6	6900.7	7177.5	7151.9	6657.3	5134.9
70°	676.1	686.8	781.4	1158.6	1855.4	3303.0	5734.2	6033.1	6042.3	5228.9	3550.7
72.5°	306.0	311.0	378.6	564.4	953.7	1758.6	3951.4	4236.8	4184.1	3332.2	1960.7
75°	161.6	172.2	208.5	284.0	459.8	725.2	2149.3	2425.5	2315.2	1522.3	721.7
77.5°	119.6	123.1	141.6	180.8	246.2	282.5	927.3	1103.1	1033.4	550.9	239.1
80°	87.5	90.4	105.3	128.1	155.2	143.8	349.4	400.7	359.4	187.2	73.3
82.5°	53.4	54.1	76.9	95.4	97.5	80.4	115.3	123.8	129.5	105.3	39.9
85°	19.2	24.2	52.0	69.0	57.6	40.6	48.4	53.4	58.4	66.9	23.5
87.5°	2.1	2.8	24.9	33.4	16.4	14.9	17.8	19.9	21.4	24.9	11.4
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°	1058.3	1058.3	1058.3	1058.3	1058.3	1058.3	1058.3	1058.3	1058.3	1058.3	1058.3
2.5°	1064.7	1067.6	1065.4	1061.9	1061.1	1059.0	1054.7	1054.7	1054.7	1056.2	1054.7
5°	1080.4	1082.5	1077.5	1070.4	1062.6	1052.6	1041.9	1035.5	1034.8	1033.4	1029.8
7.5°	1110.3	1113.1	1101.7	1084.6	1063.3	1039.1	1016.3	995.0	985.0	977.2	977.2
10°	1153.7	1156.5	1133.7	1103.1	1060.4	1011.3	957.2	908.1	869.7	851.9	847.6
12.5°	1205.6	1207.0	1169.3	1115.9	1045.5	950.8	835.5	728.1	653.3	619.2	615.6
15°	1262.6	1252.6	1202.8	1120.9	1002.8	826.3	627.0	495.3	417.8	395.0	403.5
17.5°	1320.2	1301.7	1228.4	1113.1	906.7	627.0	421.3	338.1	313.9	307.5	307.5
20°	1374.3	1348.7	1246.9	1078.9	740.2	432.0	312.4	292.5	288.2	284.0	284.7
22.5°	1428.4	1389.2	1263.3	1002.8	551.6	308.9	279.7	273.3	267.6	261.9	261.2
25°	1481.1	1427.0	1269.7	861.9	375.8	265.5	255.5	247.0	235.6	229.2	227.7
27.5°	1535.9	1472.5	1265.4	683.9	274.0	237.7	227.7	215.6	202.1	190.7	190.7
30°	1641.2	1559.3	1250.5	491.8	230.6	209.2	196.4	177.2	162.3	150.9	150.2
32.5°	1784.9	1672.5	1199.2	345.9	205.0	184.3	165.1	143.8	128.1	119.6	119.6
35°	1913.1	1786.4	1103.1	254.8	184.3	160.1	136.6	116.0	103.9	98.2	96.1
37.5°	2108.1	1952.9	970.8	207.1	164.4	138.8	114.6	95.4	85.4	81.1	81.1
40°	2400.6	2156.5	808.5	181.5	145.2	118.1	95.4	80.4	72.6	67.6	67.6
42.5°	2763.5	2405.6	644.1	163.0	127.4	101.8	79.7	68.3	61.2	57.6	56.9
45°	3220.4	2668.2	496.1	145.9	113.2	86.8	67.6	57.6	50.5	48.4	49.1
47.5°	3697.3	2899.5	384.3	131.0	98.2	73.3	57.6	49.8	44.8	42.0	42.0
50°	4104.4	3058.9	291.8	113.9	86.8	61.9	50.5	44.8	40.6	39.1	38.4
52.5°	4444.6	3105.2	223.5	98.9	76.2	53.4	44.8	40.6	37.0	34.9	34.9
55°	4734.2	3064.6	175.1	83.3	64.1	46.3	39.9	36.3	32.0	29.9	29.2
57.5°	4903.6	2934.3	133.8	69.0	52.0	38.4	34.9	30.6	25.6	22.1	22.1
60°	4989.0	2745.0	102.5	56.9	39.9	30.6	28.5	22.8	17.8	14.9	14.2
62.5°	4886.5	2493.8	77.6	44.8	29.9	22.8	19.2	16.4	11.4	8.5	8.5
63°	4823.2	2421.2	74.7	42.7	27.8	21.4	17.8	14.9	10.0	7.8	7.1
65°	4396.9	2104.5	61.2	34.2	22.1	14.9	12.1	10.7	7.1	3.6	2.8
67.5°	3491.6	1609.9	48.4	25.6	15.7	10.7	7.1	6.4	2.1	0.0	0.0
70°	2360.7	1039.8	37.7	18.5	10.7	6.4	3.6	2.8	0.7	0.0	0.0
72.5°	1231.2	533.1	29.2	13.5	6.4	4.3	2.1	0.7	0.0	0.0	0.0
75°	435.6	181.5	21.4	8.5	4.3	2.1	0.7	0.0	0.0	0.0	0.0
77.5°	131.7	67.6	13.5	6.4	2.8	1.4	0.0	0.0	0.0	0.0	0.0
80°	46.3	24.9	7.8	4.3	2.1	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	22.8	12.1	5.0	3.6	2.1	0.7	0.0	0.0	0.0	0.0	0.0
85°	12.8	7.8	4.3	3.6	2.1	1.4	0.0	0.0	0.0	0.0	0.0
87.5°	9.3	5.7	4.3	3.6	2.8	1.4	0.7	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)