

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: P529125

Luminaire Tested: **GALN-SA4B-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-730-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13558 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

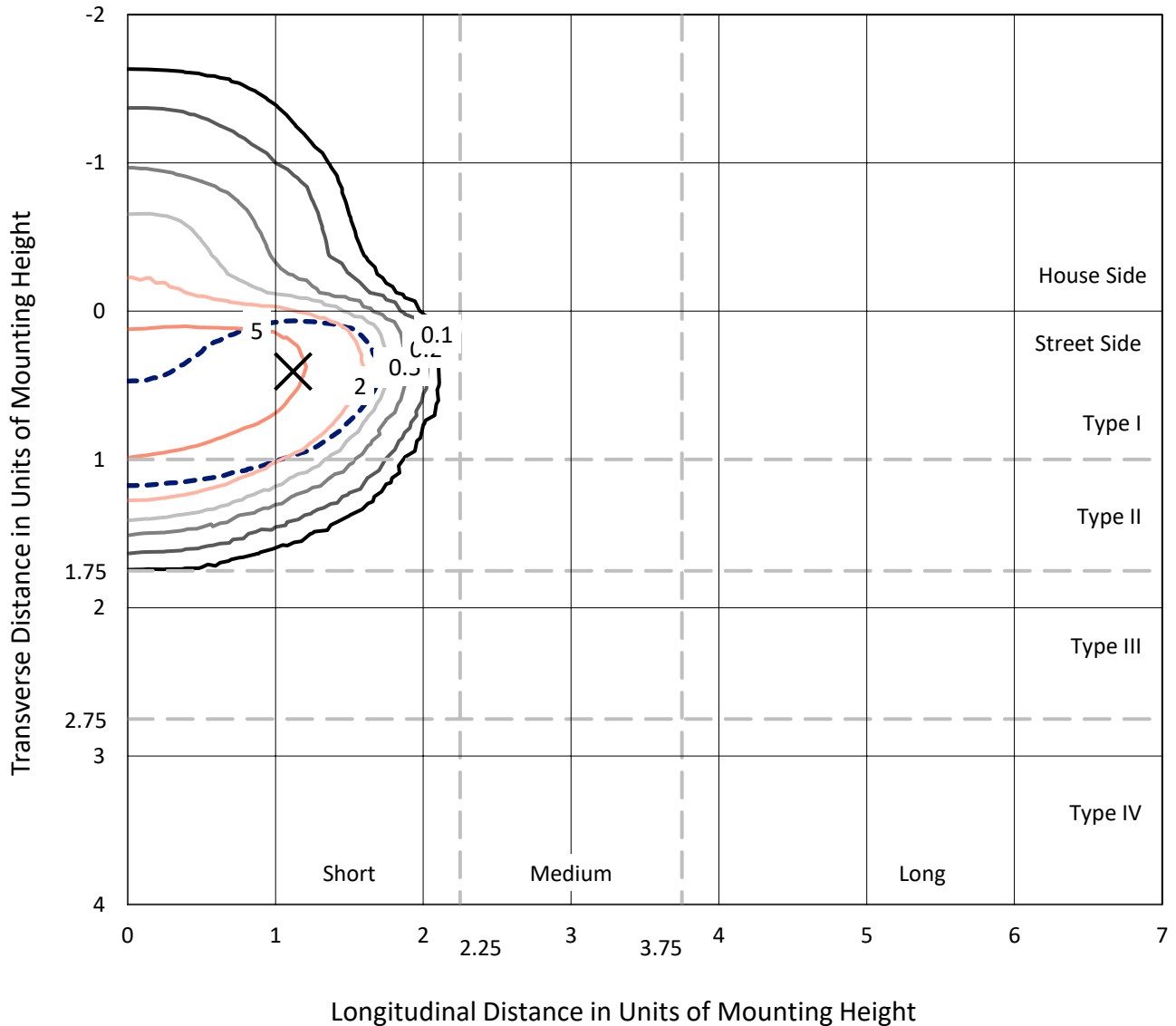
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

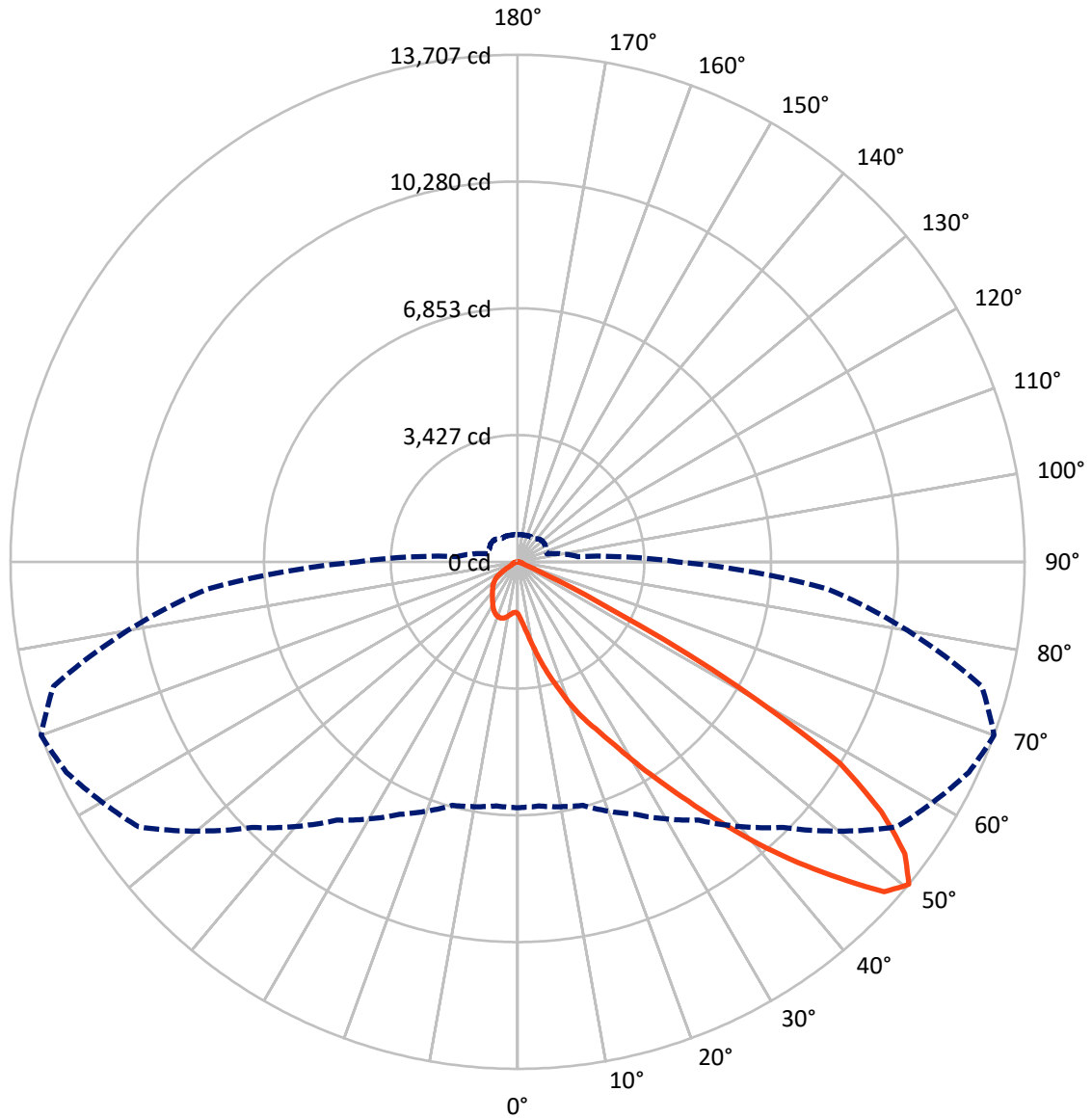
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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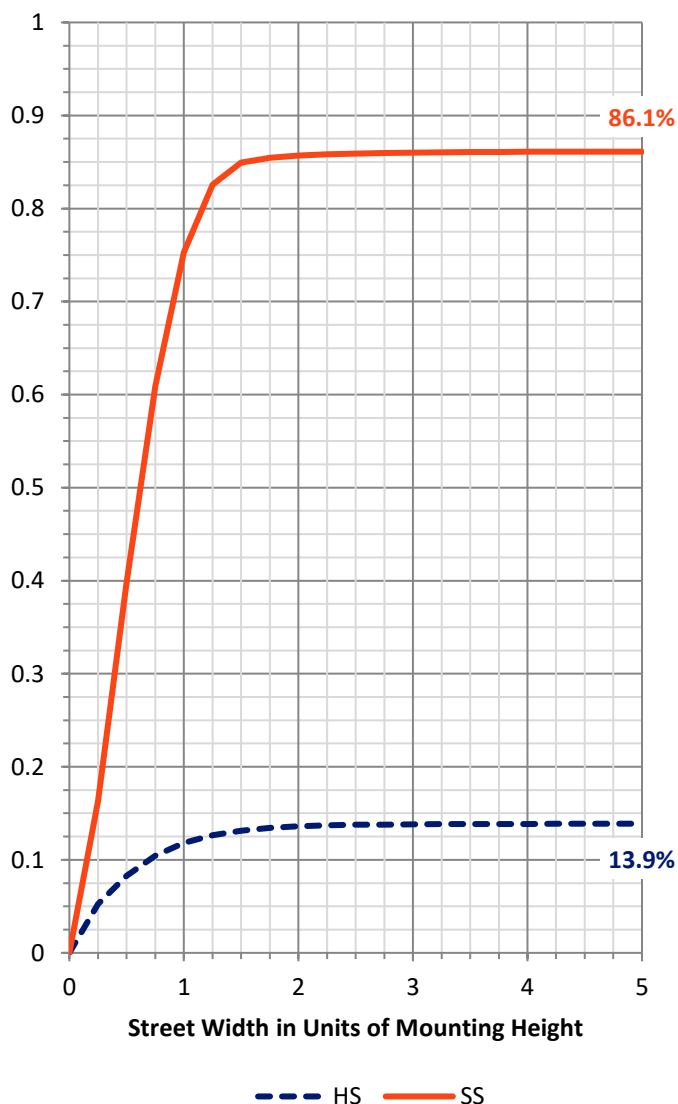
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1893.5	0.0	1893.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	11664.5	0.0	11664.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	13558.0	0.0	13558.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.6	1.3
10°-20°	789.9	5.8
20°-30°	1657.1	12.2
30°-40°	2856.4	21.1
40°-50°	4174.5	30.8
50°-60°	3251.3	24.0
60°-70°	550.9	4.1
70°-80°	75.7	0.6
80°-90°	19.6	0.1
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°	13558.0	100.0
0°-180°	13558.0	100.0

Coefficient of Utilization



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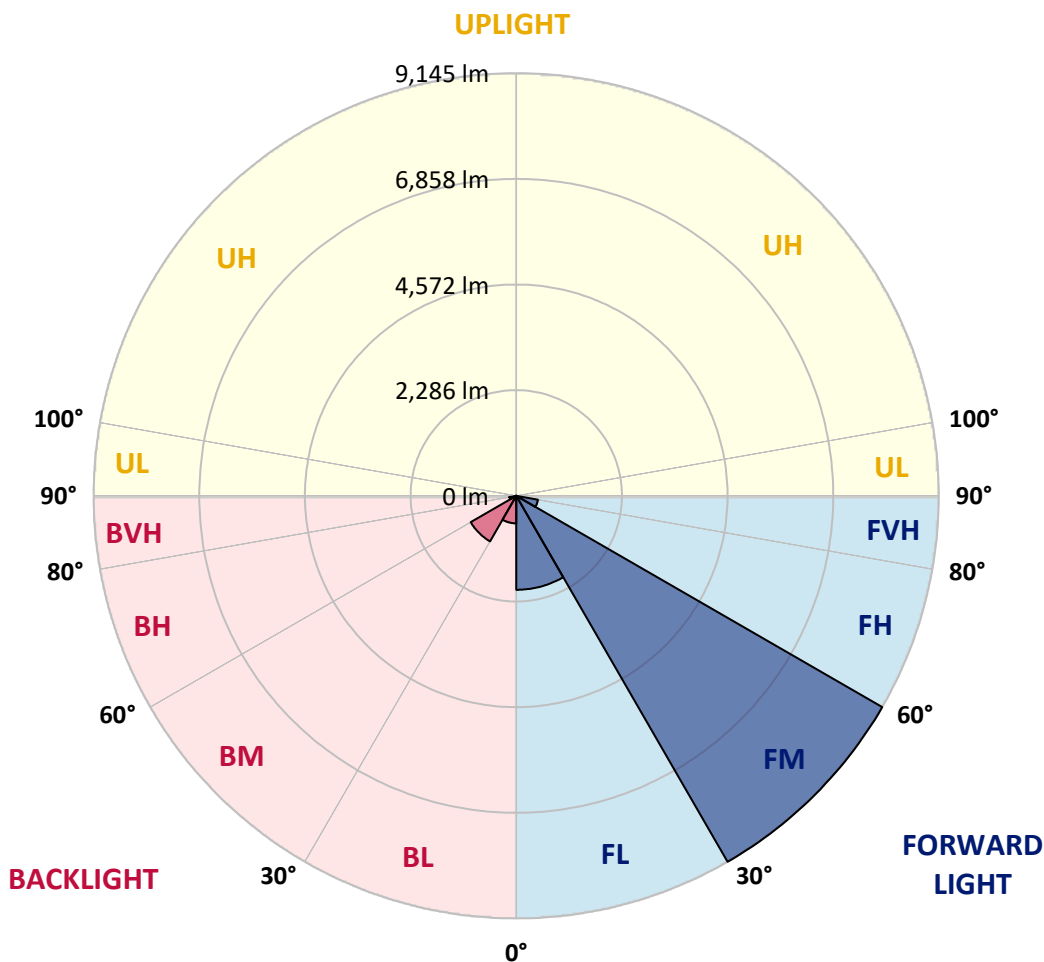
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2033.9	15.0			
FM (30°-60°)	9144.6	67.4			
FH (60°-80°)	477.0	3.5			G0/660
FVH (80°-90°)	9.1	0.1			G0/10
BL (0°-30°)	595.8	4.4	B2/1000		
BM (30°-60°)	1137.5	8.4	B2/2500		
BH (60°-80°)	149.6	1.1	B1/500		G1/500
BVH (80°-90°)	10.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1404.3	1404.3	1404.3	1404.3	1404.3	1404.3	1404.3	1404.3	1404.3	1404.3	1404.3
2.5°	1839.0	1825.6	1796.7	1743.2	1720.9	1667.4	1636.2	1576.0	1538.1	1495.7	1448.9
5°	2590.2	2521.1	2478.8	2418.6	2242.5	2133.3	1952.7	1798.9	1727.6	1649.5	1542.5
7.5°	3366.0	3321.4	3263.4	3134.1	3013.8	2786.4	2476.5	2137.7	1992.8	1859.1	1647.3
10°	4007.9	3883.1	3876.4	3780.6	3649.1	3377.1	3004.8	2583.5	2325.0	2128.8	1796.7
12.5°	4456.0	4342.3	4393.6	4382.4	4259.8	4010.2	3580.0	3022.7	2753.0	2447.6	1950.5
15°	4863.9	4817.1	4801.5	4788.1	4739.1	4554.1	4168.4	3557.7	3167.6	2799.8	2124.3
17.5°	5262.9	5142.6	5200.5	5211.7	5207.2	5040.0	4678.9	4065.9	3606.7	3172.0	2307.1
20°	5617.4	5628.5	5550.5	5534.9	5521.5	5514.8	5162.6	4569.7	4146.2	3562.1	2545.6
22.5°	6072.1	5994.1	6063.2	6018.6	5931.7	5878.2	5608.5	5015.5	4614.3	4032.5	2788.6
25°	6609.3	6671.7	6509.0	6491.2	6395.3	6210.3	5967.3	5514.8	5064.5	4469.4	3051.7
27.5°	7271.4	7162.1	7119.8	7021.7	6847.8	6769.8	6484.5	6029.8	5608.5	4928.6	3305.8
30°	7839.8	7810.8	7599.0	7483.1	7331.6	7329.3	6930.3	6727.5	6317.3	5648.6	3655.7
32.5°	8303.4	8176.4	8098.4	8018.1	7895.5	7929.0	7592.4	7485.4	7073.0	6317.3	4068.1
35°	8613.3	8521.9	8475.1	8352.5	8316.8	8466.2	8325.7	8281.2	7942.3	7258.0	4551.9
37.5°	8711.4	8740.4	8731.4	8577.6	8653.4	9056.9	9237.4	9121.5	8943.2	8250.0	5075.7
40°	8798.3	8818.4	8773.8	8954.4	9170.6	9629.8	10282.9	10091.2	10024.3	9255.3	5804.6
42.5°	8847.4	8831.7	8831.7	9143.8	9471.5	10394.4	11292.7	11165.6	11114.4	10325.3	6647.2
45°	8635.6	8484.0	8646.7	9070.3	9730.1	10771.1	12099.6	12275.7	12202.2	11598.1	7632.5
47.5°	7844.3	7937.9	8029.3	8595.5	9415.8	10655.2	12594.5	13194.1	13330.1	12668.1	8278.9
50°	6647.2	6627.2	6816.6	7529.9	8526.4	10155.8	12498.6	13459.4	13706.8	12989.0	8414.9
52.5°	4834.9	4982.1	5187.1	5896.0	7077.4	8863.0	11261.5	12775.1	13105.0	12594.5	8325.7
55°	2815.4	2652.6	3114.1	3713.7	4828.3	6685.1	9520.5	11323.9	11934.7	11876.7	7875.5
57.5°	1127.9	1092.3	1250.5	1685.2	2518.9	4143.9	6923.6	9304.3	10282.9	10878.1	6921.4
60°	494.9	483.7	568.4	686.6	1029.9	1910.4	3787.3	5786.8	6807.7	7601.3	4763.6
62.5°	356.7	352.2	394.6	436.9	543.9	831.5	1591.6	2331.7	2906.8	3510.9	2133.3
65°	287.6	298.7	327.7	350.0	401.2	461.4	561.7	648.7	795.8	824.8	470.3
67.5°	234.1	243.0	269.7	294.2	303.2	249.7	258.6	227.4	227.4	202.8	162.7
70°	171.6	173.9	205.1	234.1	187.2	100.3	176.1	176.1	158.3	151.6	138.2
72.5°	127.1	129.3	153.8	144.9	73.6	62.4	129.3	142.7	129.3	122.6	111.5
75°	93.6	95.9	80.2	33.4	31.2	40.1	75.8	98.1	93.6	91.4	84.7
77.5°	17.8	13.4	11.1	15.6	22.3	33.4	49.0	60.2	62.4	66.9	62.4
80°	2.2	2.2	6.7	13.4	24.5	35.7	51.3	58.0	60.2	62.4	58.0
82.5°	0.0	2.2	6.7	13.4	24.5	33.4	44.6	51.3	55.7	58.0	55.7
85°	0.0	2.2	4.5	11.1	20.1	24.5	22.3	15.6	13.4	15.6	11.1
87.5°	0.0	0.0	2.2	2.2	4.5	4.5	4.5	4.5	4.5	4.5	4.5
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°	1404.3	1404.3	1404.3	1404.3	1404.3	1404.3	1404.3	1404.3	1404.3	1404.3	1404.3
2.5°	1422.2	1413.3	1382.1	1348.6	1319.6	1333.0	1319.6	1308.5	1312.9	1308.5	1304.0
5°	1500.2	1460.1	1393.2	1364.2	1339.7	1337.5	1330.8	1328.6	1330.8	1330.8	1310.7
7.5°	1573.8	1509.1	1437.8	1406.6	1377.6	1379.8	1364.2	1364.2	1362.0	1350.8	1346.4
10°	1685.2	1598.3	1506.9	1451.2	1415.5	1408.8	1393.2	1377.6	1377.6	1377.6	1355.3
12.5°	1807.8	1698.6	1573.8	1509.1	1466.8	1433.3	1408.8	1404.3	1379.8	1375.4	1364.2
15°	1914.8	1776.6	1618.3	1529.2	1475.7	1431.1	1393.2	1368.7	1357.5	1350.8	1341.9
17.5°	2019.6	1843.5	1642.9	1529.2	1471.2	1419.9	1379.8	1357.5	1330.8	1335.2	1317.4
20°	2160.0	1914.8	1649.5	1500.2	1428.9	1379.8	1326.3	1315.2	1299.6	1286.2	1290.7
22.5°	2296.0	1966.1	1629.5	1464.5	1362.0	1304.0	1277.3	1263.9	1257.2	1246.1	1230.5
25°	2418.6	2021.8	1598.3	1399.9	1290.7	1248.3	1223.8	1221.6	1206.0	1206.0	1177.0
27.5°	2543.4	2041.9	1544.8	1324.1	1228.2	1203.7	1192.6	1188.1	1181.4	1165.8	1145.8
30°	2686.1	2048.6	1466.8	1246.1	1172.5	1145.8	1161.4	1172.5	1143.5	1114.6	1123.5
32.5°	2804.2	2033.0	1373.1	1172.5	1132.4	1119.0	1150.2	1161.4	1127.9	1096.7	1081.1
35°	2946.9	1995.1	1281.7	1114.6	1092.3	1119.0	1145.8	1145.8	1078.9	1041.0	1032.1
37.5°	3163.1	1952.7	1197.0	1065.5	1049.9	1105.6	1141.3	1116.8	1012.0	965.2	954.1
40°	3394.9	1926.0	1114.6	1016.5	1027.6	1083.3	1103.4	1027.6	920.6	891.6	882.7
42.5°	3731.5	1872.5	1041.0	974.1	1007.6	1052.1	1052.1	916.2	876.0	860.4	858.2
45°	4150.6	1834.6	976.4	938.5	978.6	989.7	954.1	858.2	829.2	824.8	827.0
47.5°	4355.7	1761.0	909.5	896.1	925.1	927.3	833.7	811.4	786.9	780.2	775.7
50°	4324.5	1629.5	822.5	840.4	880.5	858.2	760.1	764.6	742.3	740.1	728.9
52.5°	4106.0	1422.2	735.6	778.0	822.5	757.9	699.9	695.5	695.5	666.5	655.4
55°	3640.1	1145.8	630.8	684.3	737.8	637.5	621.9	617.5	606.3	579.6	572.9
57.5°	2882.2	840.4	474.8	532.8	626.4	541.7	539.4	519.4	490.4	470.3	470.3
60°	1714.2	483.7	298.7	325.5	414.6	439.1	488.2	479.3	430.2	399.0	390.1
62.5°	782.4	249.7	189.5	193.9	222.9	285.3	383.4	443.6	374.5	321.0	316.5
65°	263.0	185.0	156.0	149.4	153.8	171.6	229.6	314.3	298.7	247.4	238.5
67.5°	160.5	165.0	147.1	136.0	136.0	133.7	131.5	142.7	176.1	171.6	173.9
70°	138.2	151.6	136.0	122.6	118.1	111.5	93.6	78.0	66.9	78.0	82.5
72.5°	111.5	120.4	115.9	104.8	93.6	84.7	66.9	51.3	37.9	33.4	33.4
75°	82.5	89.2	93.6	80.2	71.3	60.2	49.0	33.4	20.1	13.4	13.4
77.5°	60.2	66.9	69.1	62.4	53.5	42.4	31.2	22.3	11.1	4.5	4.5
80°	51.3	60.2	66.9	62.4	55.7	40.1	29.0	15.6	8.9	2.2	2.2
82.5°	49.0	60.2	66.9	60.2	53.5	37.9	29.0	17.8	6.7	2.2	2.2
85°	11.1	15.6	20.1	24.5	29.0	29.0	22.3	13.4	6.7	2.2	2.2
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	2.2	2.2	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)