

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: P458801

Luminaire Tested: **GALN-SA3B-735-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11447 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

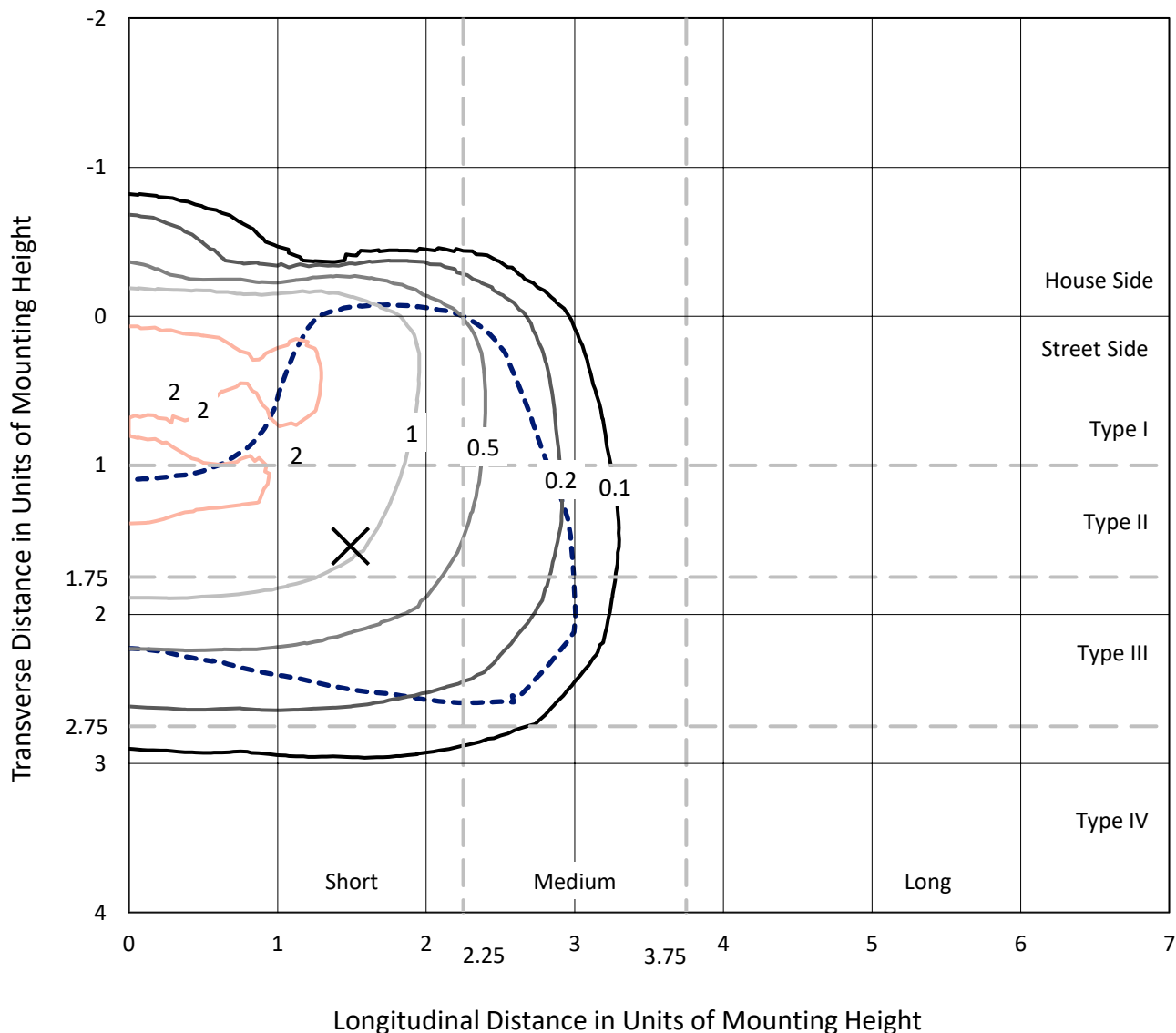
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

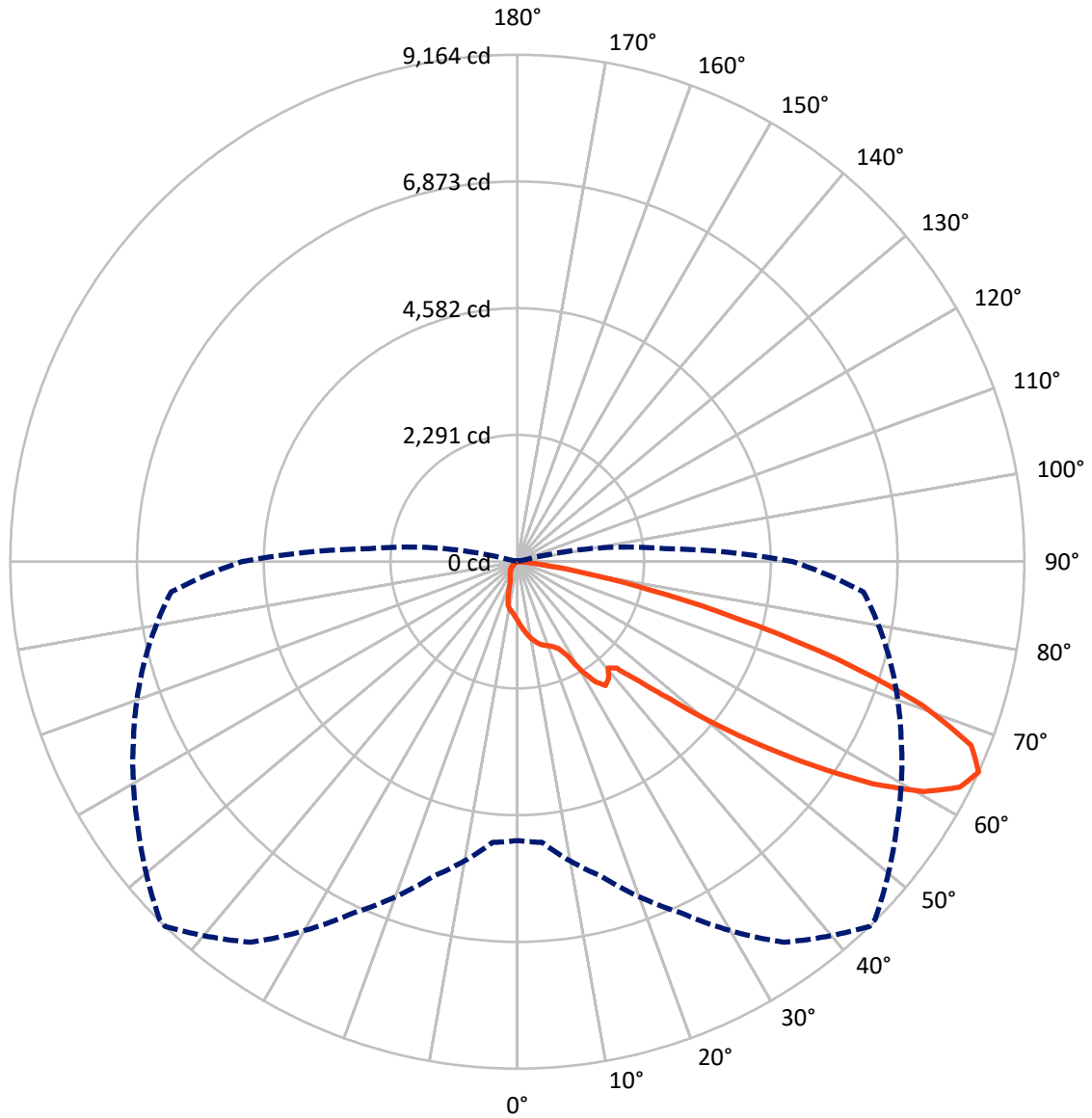
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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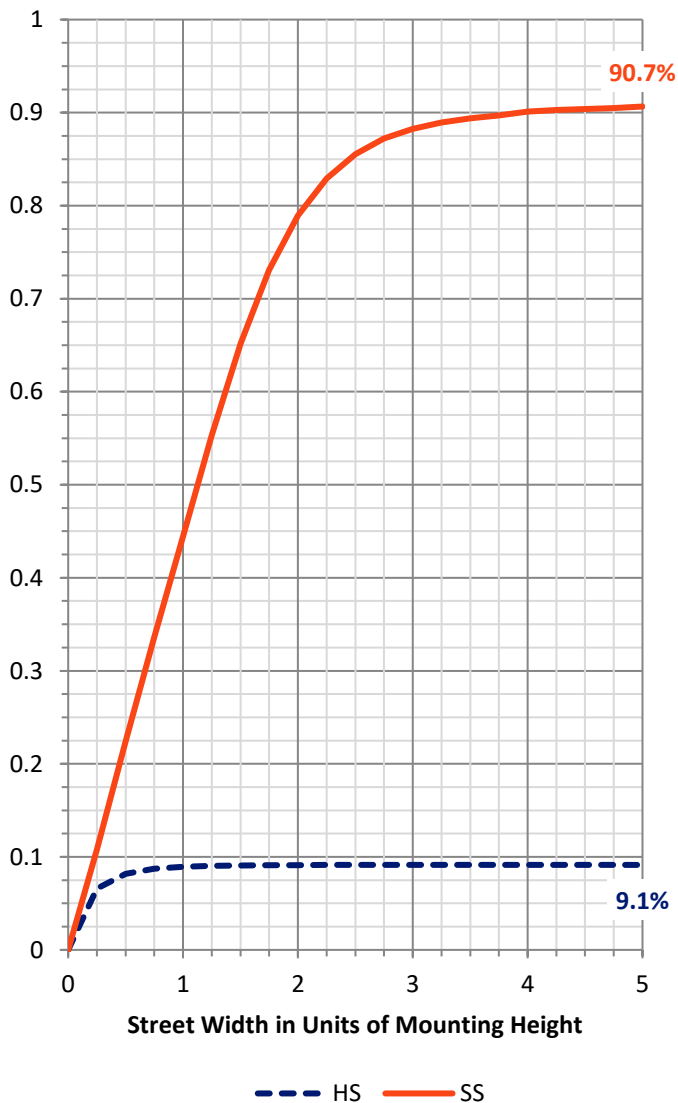
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1054.7	0.0	1054.7
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	10392.3	0.0	10392.3
	% Fixture	90.8	0.0	90.8
Total	Lumens	11447.0	0.0	11447.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.0	0.9
10°-20°	318.9	2.8
20°-30°	540.8	4.7
30°-40°	899.1	7.9
40°-50°	1569.9	13.7
50°-60°	3066.9	26.8
60°-70°	3558.4	31.1
70°-80°	1295.8	11.3
80°-90°	91.3	0.8
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°	11447.0	100.0
0°-180°	11447.0	100.0



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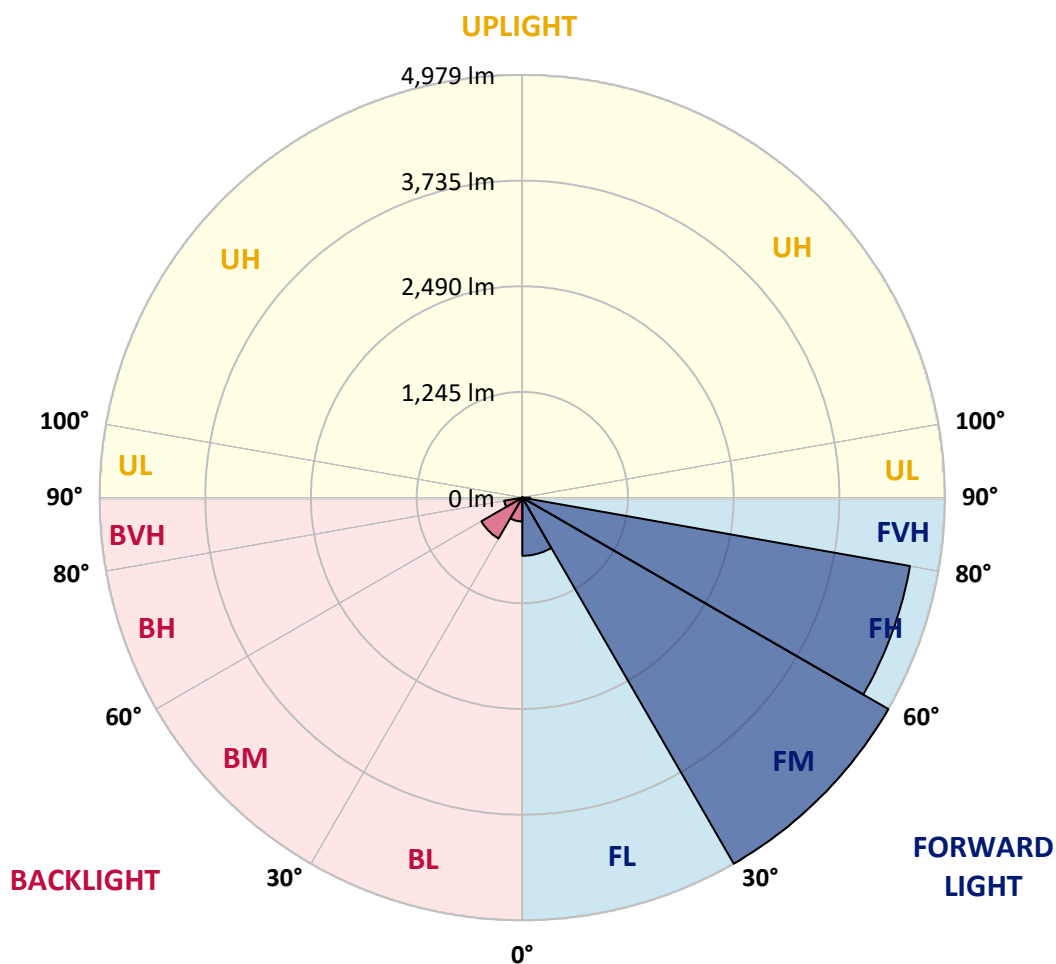
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	684.6	6.0			
FM (30°-60°)	4979.5	43.5			
FH (60°-80°)	4638.2	40.5			G2/5000
FVH (80°-90°)	90.1	0.8			G1/100
BL (0°-30°)	281.0	2.5	B1/500		
BM (30°-60°)	556.4	4.9	B1/1000		
BH (60°-80°)	216.0	1.9	B1/500		G1/500
BVH (80°-90°)	1.2	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°	44°	45°	55°	65°	75°	85°
0°	1065.4	1065.4	1065.4	1065.4	1065.4	1065.4	1065.4	1065.4	1065.4	1065.4	1065.4
2.5°	1199.2	1194.0	1191.3	1177.3	1166.8	1153.7	1153.7	1137.1	1117.9	1096.9	1077.6
5°	1333.0	1324.3	1312.9	1300.7	1276.2	1241.2	1241.2	1206.2	1166.0	1130.1	1090.7
7.5°	1461.6	1453.7	1434.5	1410.9	1370.6	1333.9	1331.3	1280.5	1232.4	1178.2	1122.2
10°	1574.4	1568.3	1551.7	1506.2	1464.2	1416.1	1415.3	1358.4	1302.4	1235.9	1166.8
12.5°	1653.2	1654.0	1632.2	1588.4	1534.2	1488.7	1485.2	1429.2	1370.6	1298.9	1214.1
15°	1709.1	1709.1	1686.4	1637.4	1588.4	1548.2	1544.7	1495.7	1435.4	1357.5	1265.7
17.5°	1724.9	1730.1	1705.6	1661.9	1622.6	1587.6	1586.7	1545.6	1497.5	1422.2	1318.2
20°	1718.8	1724.0	1704.8	1670.7	1643.5	1623.4	1620.8	1604.2	1559.6	1488.7	1374.1
22.5°	1705.6	1710.9	1696.9	1676.8	1663.7	1669.8	1665.4	1679.4	1655.8	1570.1	1440.6
25°	1708.3	1713.5	1703.0	1691.7	1703.0	1740.6	1752.0	1812.4	1791.4	1673.3	1512.3
27.5°	1790.5	1801.0	1786.1	1791.4	1831.6	1919.1	1940.9	2045.0	1952.3	1804.5	1624.3
30°	1973.3	1966.3	1938.3	1963.7	2103.6	2289.1	2282.9	2266.3	2121.1	1955.8	1757.3
32.5°	2139.5	2133.4	2131.6	2241.0	2494.6	2584.7	2580.3	2419.4	2272.4	2129.0	1888.5
35°	2206.8	2183.2	2178.0	2443.0	2867.2	2748.3	2721.2	2482.4	2456.1	2317.9	2022.3
37.5°	2409.8	2393.2	2311.8	2476.3	2718.5	2679.2	2658.2	2590.8	2652.1	2485.0	2173.6
40°	2827.9	2781.5	2708.0	2547.1	2507.7	2524.4	2545.4	2729.9	2883.9	2713.3	2375.7
42.5°	3347.4	3336.9	3200.5	2900.5	2605.7	2628.4	2655.6	3020.3	3217.1	3057.0	2705.4
45°	3971.1	3986.0	3789.2	3434.9	3048.3	3067.5	3106.9	3448.9	3668.5	3591.5	3224.1
47.5°	4537.9	4526.5	4460.1	4091.8	3734.9	3692.1	3755.9	3999.1	4293.0	4305.2	3867.9
50°	5108.2	5168.6	5069.7	4925.4	4660.4	4570.3	4546.6	4665.6	5113.4	5054.8	4641.1
52.5°	5927.8	5959.3	5773.8	5737.1	5797.5	5505.3	5481.7	5510.6	5911.2	5710.0	5220.2
55°	6443.0	6424.6	6355.5	6642.4	6881.2	6516.5	6486.7	6370.4	6573.3	6172.7	5777.3
57.5°	6605.7	6631.9	6792.9	7311.5	7876.6	7567.0	7512.7	7182.1	7050.9	6603.9	6289.9
60°	6533.1	6581.2	6928.4	7699.9	8483.6	8437.3	8390.9	7835.5	7393.8	6964.3	6649.4
62.5°	6016.1	6083.5	6638.9	7630.8	8689.2	8978.7	8921.0	8243.1	7622.1	7139.2	6712.4
65°	5041.7	5091.6	5889.3	7003.7	8397.0	9164.1	9143.2	8370.8	7657.9	6979.2	6281.2
67.5°	3594.1	3763.8	4502.9	5902.4	7532.8	8847.5	8883.4	8217.7	7321.2	6287.3	5201.8
70°	2259.3	2374.8	2904.9	4225.6	6038.9	7762.0	7880.1	7517.1	6353.8	4900.9	3482.1
72.5°	1077.6	1163.3	1541.2	2674.8	4262.4	6107.1	6200.7	6170.9	4913.1	3087.7	1796.6
75°	480.2	512.6	735.6	1365.4	2751.8	4104.9	4347.2	4387.5	3070.2	1510.6	698.9
77.5°	244.9	245.8	344.6	661.3	1374.1	2449.1	2497.2	2638.1	1664.5	665.6	243.2
80°	130.3	139.1	182.8	312.3	712.9	1206.2	1200.1	1319.0	738.2	326.3	81.3
82.5°	58.6	64.7	103.2	163.6	348.1	457.5	493.3	539.7	316.6	208.2	35.9
85°	17.5	21.0	50.7	82.2	126.0	132.1	147.8	190.7	179.3	147.8	18.4
87.5°	2.6	2.6	21.0	22.7	18.4	23.6	24.5	27.1	57.7	54.2	9.6
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°	1065.4	1065.4	1065.4	1065.4	1065.4	1065.4	1065.4	1065.4	1065.4	1065.4	1065.4
2.5°	1067.1	1061.0	1039.1	1020.8	1005.0	995.4	984.0	977.0	973.5	970.9	971.8
5°	1071.5	1056.6	1019.0	989.3	966.5	942.0	925.4	915.8	911.4	904.4	904.4
7.5°	1096.0	1072.4	1019.9	974.4	935.0	901.8	870.3	858.9	851.1	849.3	847.6
10°	1131.0	1101.2	1029.5	966.5	910.6	865.1	820.5	781.1	750.5	732.1	729.5
12.5°	1174.7	1131.9	1044.4	961.3	889.6	809.1	691.0	611.4	558.1	541.4	544.1
15°	1214.9	1168.6	1059.3	956.9	851.1	670.9	537.1	446.1	419.0	416.4	417.2
17.5°	1263.1	1207.9	1076.7	950.8	745.2	512.6	398.9	374.4	379.6	388.4	387.5
20°	1312.9	1249.9	1097.7	914.1	594.8	385.7	352.5	355.1	363.0	370.9	372.6
22.5°	1366.3	1298.0	1122.2	825.7	454.0	335.9	334.1	337.6	345.5	354.3	356.0
25°	1439.7	1358.4	1140.6	710.2	343.8	310.5	314.0	320.1	327.1	336.8	338.5
27.5°	1534.2	1439.7	1150.2	559.8	297.4	287.8	288.6	297.4	306.1	314.9	314.9
30°	1656.7	1536.8	1131.0	423.4	274.7	265.9	262.4	267.7	279.0	287.8	288.6
32.5°	1766.0	1628.7	1080.2	323.6	258.0	245.8	237.0	237.9	242.3	247.5	248.4
35°	1875.3	1717.9	993.6	272.0	240.5	226.5	213.4	206.4	202.9	200.3	202.9
37.5°	2015.3	1829.0	878.2	247.5	225.7	208.2	189.8	174.9	162.7	154.8	156.6
40°	2195.5	1982.9	741.7	231.8	211.7	190.7	166.2	146.9	126.0	119.0	115.5
42.5°	2492.9	2216.5	598.3	218.7	197.7	172.3	141.7	115.5	96.2	89.2	91.0
45°	2962.6	2511.2	461.0	204.7	183.7	152.2	119.0	91.0	75.2	71.7	73.5
47.5°	3585.4	2892.6	355.1	188.9	166.2	130.3	93.6	71.7	62.1	61.2	60.4
50°	4171.4	3247.7	296.5	171.4	145.2	108.5	77.0	60.4	54.2	53.4	53.4
52.5°	4701.5	3502.3	241.4	151.3	122.5	89.2	64.7	53.4	48.1	45.5	45.5
55°	5172.9	3668.5	195.9	126.8	96.2	70.9	56.0	48.1	42.0	38.5	37.6
57.5°	5528.9	3688.6	146.9	101.5	71.7	55.1	48.1	42.0	35.0	30.6	28.9
60°	5681.1	3514.5	108.5	77.0	53.4	43.7	38.5	34.1	26.2	21.9	21.0
62.5°	5528.1	3176.0	80.5	58.6	41.1	32.4	27.1	25.4	18.4	13.1	12.2
65°	4979.6	2687.1	63.9	44.6	30.6	23.6	17.5	16.6	11.4	6.1	5.2
67.5°	3989.5	2104.5	50.7	33.2	21.9	15.7	11.4	10.5	6.1	1.7	1.7
70°	2594.3	1345.3	41.1	24.5	14.0	10.5	7.0	5.2	3.5	0.9	0.0
72.5°	1283.2	628.9	33.2	19.2	9.6	5.2	2.6	1.7	2.6	0.0	0.0
75°	497.7	223.9	24.5	13.1	5.2	2.6	1.7	0.0	0.9	0.0	0.0
77.5°	165.3	74.3	14.9	7.0	3.5	1.7	0.0	0.0	0.0	0.0	0.0
80°	61.2	28.9	7.9	4.4	1.7	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	24.5	11.4	5.2	3.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.2	7.0	3.5	2.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.7	5.2	3.5	2.6	1.7	0.9	0.0	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)