

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: P652366

Luminaire Tested: **GALN-SA4B-840-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652366
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-SA4B-840-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 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: 13694.8 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

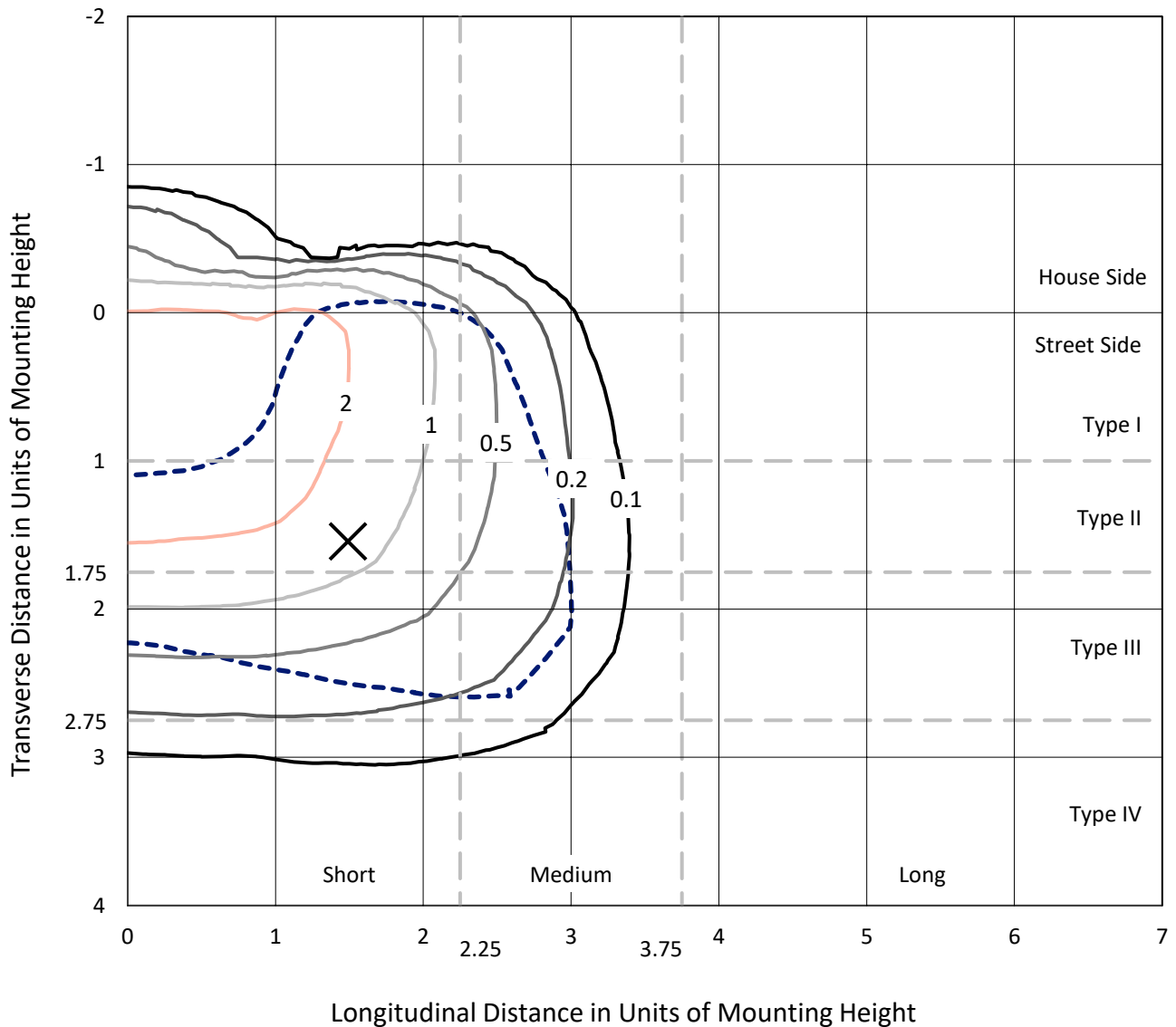
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652366
 CATALOG NUMBER: GALN-SA4B-840-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

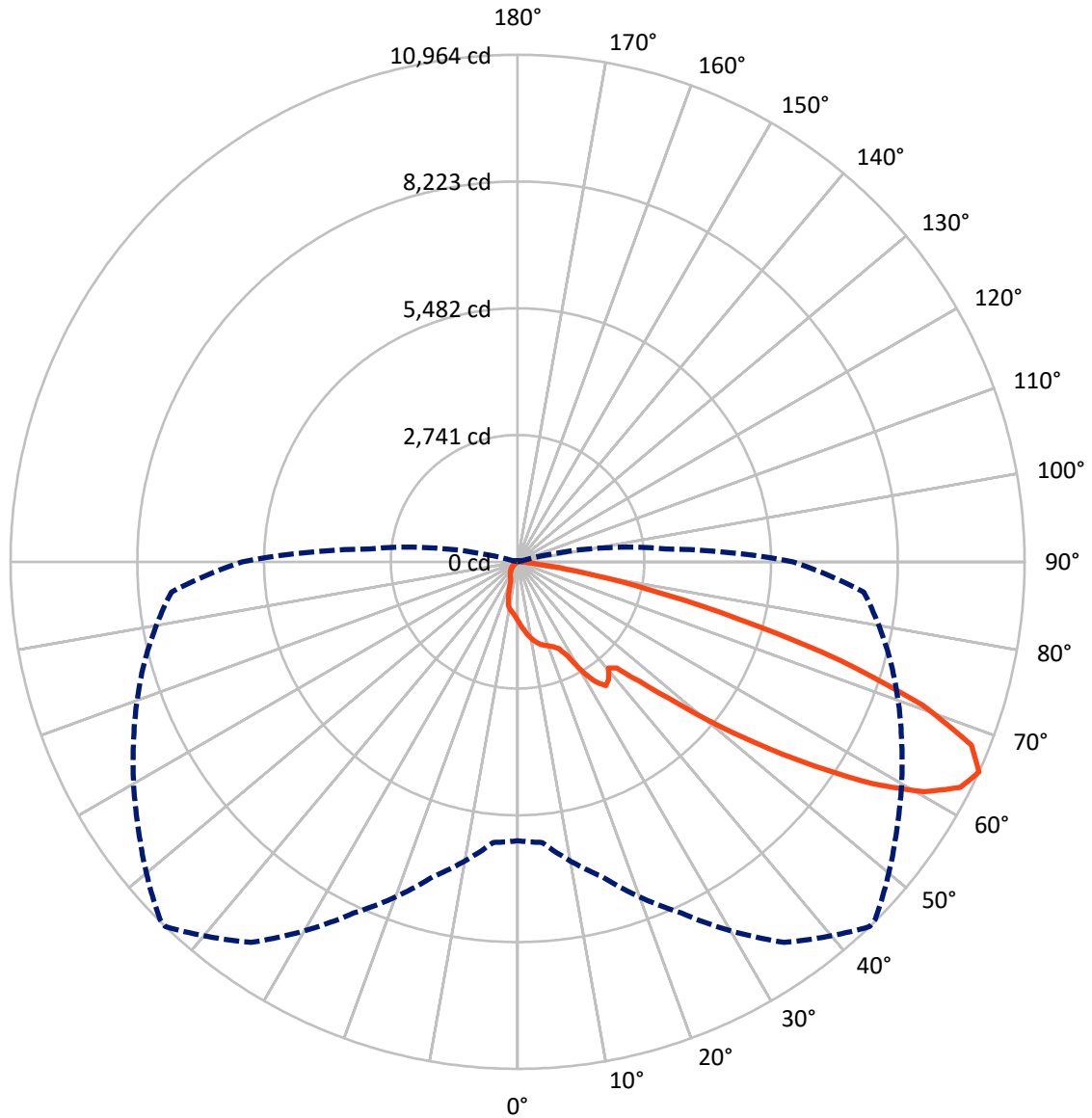
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Short - N/A

REPORT NUMBER: P652366
CATALOG NUMBER: GALN-SA4B-840-U-T4W-HSS

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA4B-840-U-T4W-HSS

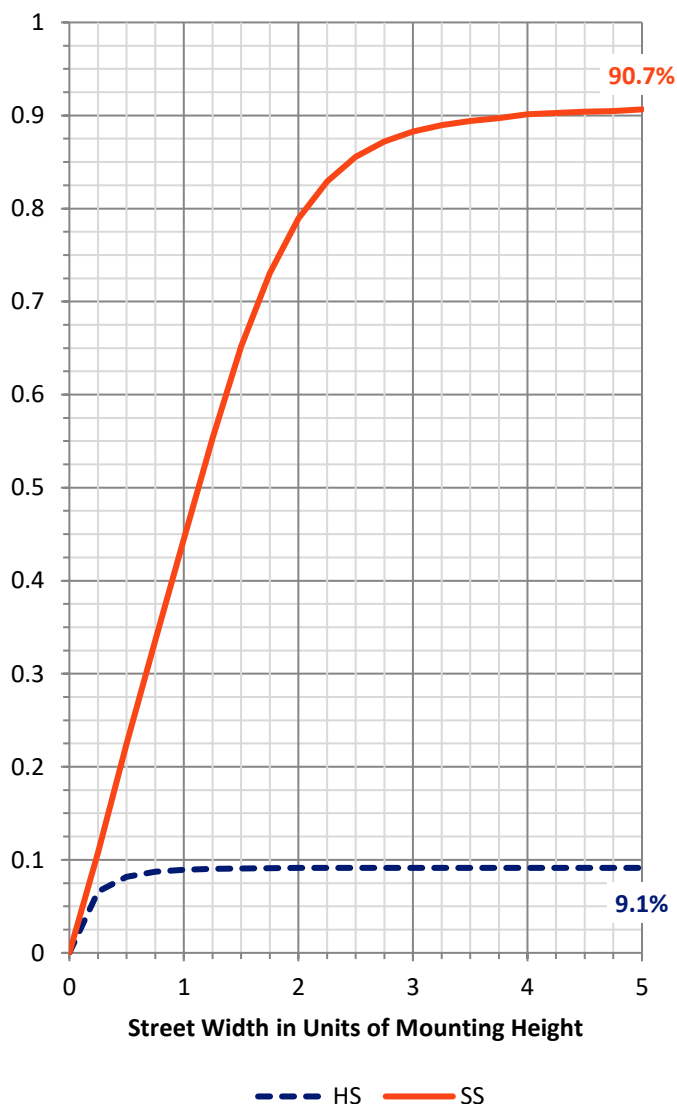
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1261.8	0.0	1261.8
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	12433.1	0.0	12433.1
	% Fixture	90.8	0.0	90.8
Total	Lumens	13694.8	0.0	13694.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.8	0.9
10°-20°	381.5	2.8
20°-30°	647.0	4.7
30°-40°	1075.7	7.9
40°-50°	1878.1	13.7
50°-60°	3669.2	26.8
60°-70°	4257.1	31.1
70°-80°	1550.2	11.3
80°-90°	109.2	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°	13694.8	100.0
0°-180°	13694.8	100.0

Coefficient of Utilization



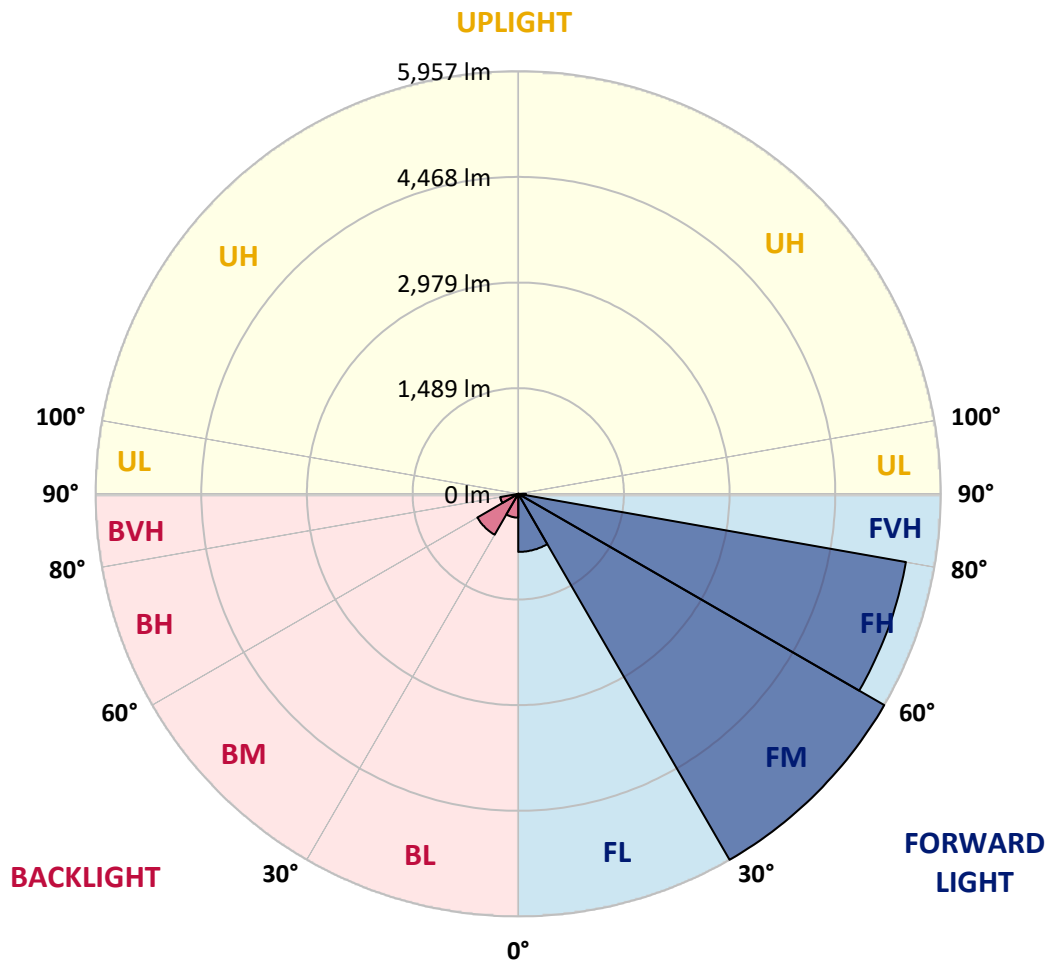
REPORT NUMBER: P652366
 CATALOG NUMBER: GALN-SA4B-840-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	819.1	6.0			
FM (30°-60°)	5957.3	43.5			
FH (60°-80°)	5549.0	40.5			G3/7500
FVH (80°-90°)	107.7	0.8			G2/225
BL (0°-30°)	336.2	2.5	B1/500		
BM (30°-60°)	665.7	4.9	B1/1000		
BH (60°-80°)	258.4	1.9	B1/500		G1/500
BVH (80°-90°)	1.5	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-G3

Type III Short





REPORT NUMBER: P652366

CATALOG NUMBER: GALN-SA4B-840-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1274.6	1274.6	1274.6	1274.6	1274.6	1274.6	1274.6	1274.6	1274.6	1274.6	1274.6
2.5°	1434.7	1428.4	1425.2	1408.5	1396.0	1380.2	1380.2	1360.4	1337.4	1312.2	1289.3
5°	1594.8	1584.4	1570.7	1556.1	1526.8	1485.0	1485.0	1443.1	1394.9	1352.0	1304.9
7.5°	1748.6	1739.2	1716.1	1688.0	1639.8	1595.9	1592.7	1532.0	1474.4	1409.6	1342.6
10°	1883.6	1876.3	1856.4	1802.0	1751.8	1694.2	1693.2	1625.1	1558.2	1478.6	1396.0
12.5°	1977.8	1978.9	1952.7	1900.3	1835.5	1781.1	1776.9	1709.9	1639.8	1554.0	1452.5
15°	2044.8	2044.8	2017.6	1958.9	1900.3	1852.2	1848.0	1789.4	1717.2	1624.1	1514.2
17.5°	2063.6	2069.9	2040.6	1988.3	1941.2	1899.3	1898.3	1849.1	1791.5	1701.5	1577.0
20°	2056.2	2062.6	2039.5	1998.7	1966.3	1942.2	1939.1	1919.2	1865.8	1781.1	1644.0
22.5°	2040.6	2046.8	2030.1	2006.0	1990.4	1997.7	1992.4	2009.2	1981.0	1878.4	1723.5
25°	2043.7	2050.0	2037.4	2023.9	2037.4	2082.5	2096.0	2168.3	2143.1	2001.8	1809.3
27.5°	2142.1	2154.6	2136.9	2143.1	2191.3	2295.9	2322.1	2446.6	2335.7	2158.8	1943.3
30°	2360.8	2352.4	2319.0	2349.2	2516.7	2738.5	2731.2	2711.4	2537.6	2339.8	2102.3
32.5°	2559.7	2552.3	2550.2	2681.0	2984.5	3092.3	3087.1	2894.5	2718.7	2547.1	2259.3
35°	2640.2	2612.0	2605.7	2922.7	3430.3	3288.0	3255.5	2969.8	2938.5	2773.1	2419.4
37.5°	2882.9	2863.1	2765.8	2962.5	3252.4	3205.3	3180.2	3099.6	3172.8	2973.0	2600.5
40°	3383.2	3327.8	3239.8	3047.3	3000.2	3020.0	3045.2	3266.0	3450.1	3246.1	2842.2
42.5°	4004.8	3992.2	3829.0	3470.1	3117.4	3144.6	3177.0	3613.4	3848.8	3657.3	3236.7
45°	4750.9	4768.7	4533.2	4109.5	3646.9	3670.0	3717.0	4126.2	4388.8	4296.8	3857.2
47.5°	5429.0	5415.4	5335.9	4895.3	4468.4	4417.1	4493.5	4784.4	5136.0	5150.6	4627.4
50°	6111.3	6183.5	6065.3	5892.6	5575.5	5467.8	5439.5	5581.8	6117.6	6047.5	5552.5
52.5°	7091.8	7129.5	6907.6	6863.7	6935.9	6586.4	6558.1	6592.7	7072.0	6831.3	6245.3
55°	7708.2	7686.2	7603.6	7946.8	8232.5	7796.1	7760.5	7621.3	7864.1	7384.8	6911.8
57.5°	7902.8	7934.2	8126.8	8747.3	9423.3	9052.9	8988.0	8592.4	8435.5	7900.7	7525.0
60°	7816.0	7873.5	8289.0	9212.0	10149.5	10094.1	10038.6	9374.1	8845.6	8331.9	7955.2
62.5°	7197.5	7278.1	7942.6	9129.3	10395.5	10741.8	10672.8	9861.8	9118.8	8541.2	8030.5
65°	6031.7	6091.4	7045.8	8379.0	10046.0	10963.7	10938.6	10014.5	9161.7	8349.7	7514.6
67.5°	4299.9	4502.9	5387.1	7061.5	9012.1	10584.9	10627.8	9831.5	8758.8	7521.9	6223.2
70°	2703.0	2841.2	3475.3	5055.4	7224.7	9286.2	9427.5	8993.2	7601.5	5863.3	4165.9
72.5°	1289.3	1391.8	1843.9	3200.1	5099.4	7306.4	7418.3	7382.7	5877.9	3694.0	2149.4
75°	574.5	613.3	880.1	1633.5	3292.2	4911.0	5200.9	5249.0	3673.1	1807.2	836.1
77.5°	293.0	294.0	412.3	791.1	1644.0	2930.0	2987.7	3156.1	1991.4	796.3	290.9
80°	155.9	166.3	218.7	373.6	852.9	1443.1	1435.8	1578.1	883.2	390.3	97.3
82.5°	70.1	77.5	123.5	195.7	416.5	547.3	590.2	645.6	378.8	249.0	42.9
85°	20.9	25.1	60.7	98.4	150.7	158.0	176.9	228.2	214.5	176.9	22.0
87.5°	3.1	3.1	25.1	27.2	22.0	28.3	29.3	32.5	69.0	64.8	11.5
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: P652366

CATALOG NUMBER: GALN-SA4B-840-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1274.6	1274.6	1274.6	1274.6	1274.6	1274.6	1274.6	1274.6	1274.6	1274.6	1274.6
2.5°	1276.6	1269.3	1243.2	1221.2	1202.4	1190.9	1177.2	1168.9	1164.7	1161.6	1162.6
5°	1281.9	1264.1	1219.1	1183.5	1156.3	1127.0	1107.2	1095.7	1090.4	1082.0	1082.0
7.5°	1311.2	1282.9	1220.2	1165.7	1118.7	1078.9	1041.2	1027.6	1018.2	1016.1	1014.0
10°	1353.1	1317.5	1231.6	1156.3	1089.3	1034.9	981.6	934.5	897.9	875.9	872.7
12.5°	1405.4	1354.1	1249.5	1150.1	1064.3	968.0	826.7	731.5	667.7	647.7	650.9
15°	1453.5	1398.1	1267.2	1144.9	1018.2	802.7	642.5	533.7	501.2	498.1	499.1
17.5°	1511.1	1445.2	1288.2	1137.5	891.5	613.3	477.2	447.9	454.1	464.7	463.6
20°	1570.7	1495.4	1313.3	1093.6	711.6	461.5	421.8	424.9	434.3	443.7	445.8
22.5°	1634.6	1552.9	1342.6	987.8	543.1	401.8	399.7	403.9	413.4	423.8	425.9
25°	1722.5	1625.1	1364.6	849.7	411.2	371.5	375.7	383.0	391.4	402.9	404.9
27.5°	1835.5	1722.5	1376.1	669.8	355.8	344.3	345.3	355.8	366.3	376.7	376.7
30°	1982.0	1838.6	1353.1	506.5	328.6	318.2	313.9	320.3	333.8	344.3	345.3
32.5°	2112.8	1948.5	1292.4	387.2	308.7	294.0	283.6	284.6	289.9	296.1	297.2
35°	2243.6	2055.2	1188.8	325.5	287.8	271.1	255.3	247.0	242.8	239.6	242.8
37.5°	2411.1	2188.1	1050.7	296.1	270.0	249.0	227.1	209.3	194.6	185.2	187.3
40°	2626.6	2372.3	887.4	277.3	253.2	228.2	198.8	175.8	150.7	142.3	138.1
42.5°	2982.4	2651.8	715.8	261.6	236.5	206.1	169.5	138.1	115.1	106.7	108.8
45°	3544.3	3004.4	551.4	244.9	219.8	182.1	142.3	108.8	90.0	85.8	87.9
47.5°	4289.4	3460.6	424.9	226.1	198.8	155.9	111.9	85.8	74.3	73.3	72.2
50°	4990.6	3885.5	354.7	205.1	173.8	129.8	92.1	72.2	64.8	63.8	63.8
52.5°	5624.7	4190.0	288.8	181.1	146.5	106.7	77.5	63.8	57.5	54.4	54.4
55°	6188.8	4388.8	234.4	151.7	115.1	84.8	66.9	57.5	50.2	46.0	45.0
57.5°	6614.6	4412.9	175.8	121.4	85.8	65.9	57.5	50.2	41.9	36.7	34.6
60°	6796.7	4204.7	129.8	92.1	63.8	52.3	46.0	40.8	31.4	26.2	25.1
62.5°	6613.6	3799.6	96.3	70.1	49.2	38.7	32.5	30.4	22.0	15.7	14.6
65°	5957.5	3214.7	76.4	53.4	36.7	28.3	20.9	19.8	13.6	7.3	6.3
67.5°	4772.8	2517.8	60.7	39.8	26.2	18.8	13.6	12.5	7.3	2.1	2.1
70°	3103.8	1609.4	49.2	29.3	16.7	12.5	8.4	6.3	4.2	1.0	0.0
72.5°	1535.2	752.4	39.8	23.0	11.5	6.3	3.1	2.1	3.1	0.0	0.0
75°	595.4	267.9	29.3	15.7	6.3	3.1	2.1	0.0	1.0	0.0	0.0
77.5°	197.8	89.0	17.8	8.4	4.2	2.1	0.0	0.0	0.0	0.0	0.0
80°	73.3	34.6	9.4	5.2	2.1	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	29.3	13.6	6.3	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.6	8.4	4.2	3.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.4	6.3	4.2	3.1	2.1	1.0	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)