

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: P944868

Luminaire Tested: **GALN-SB1A-727-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

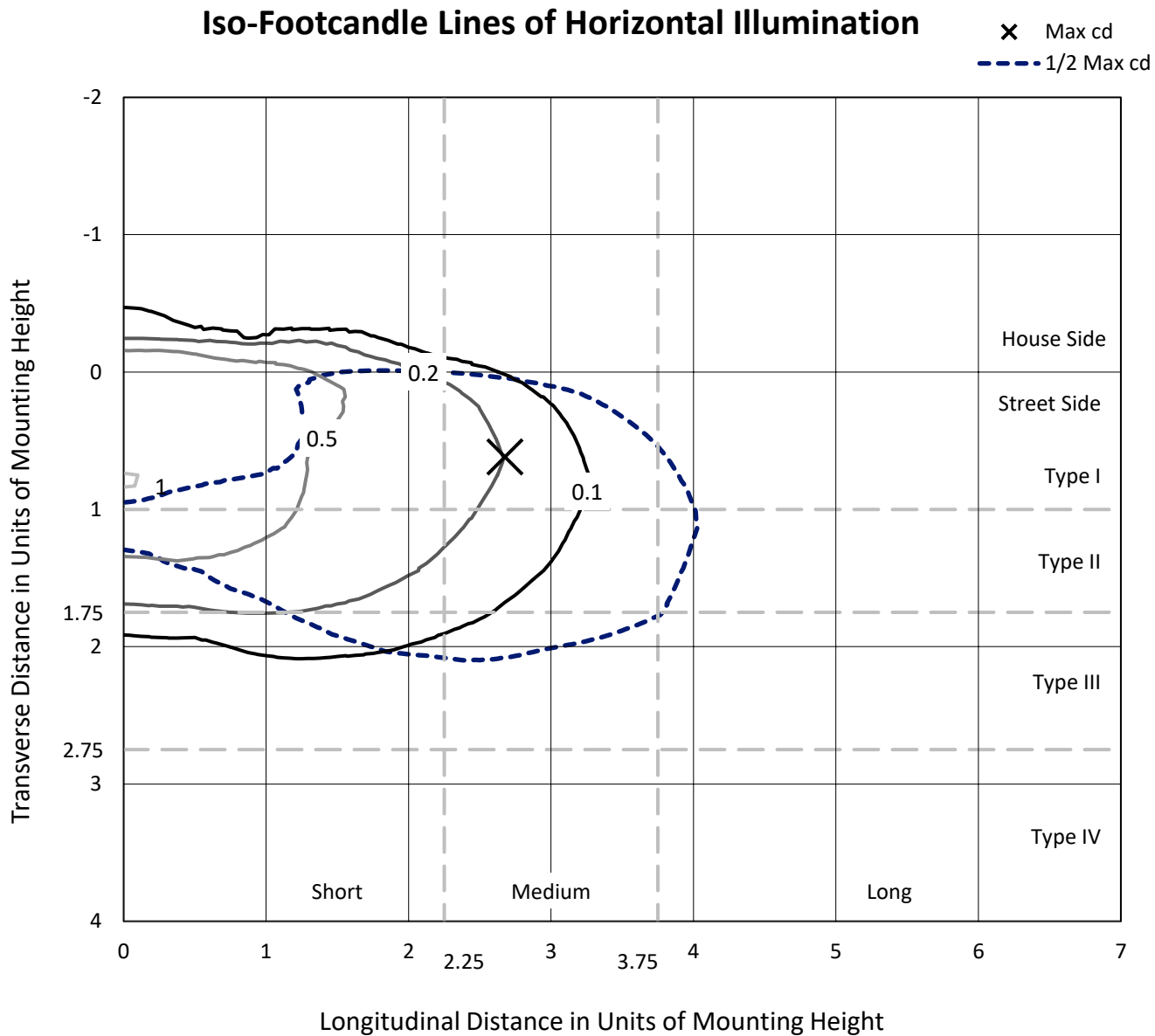
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3465 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 30.9
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



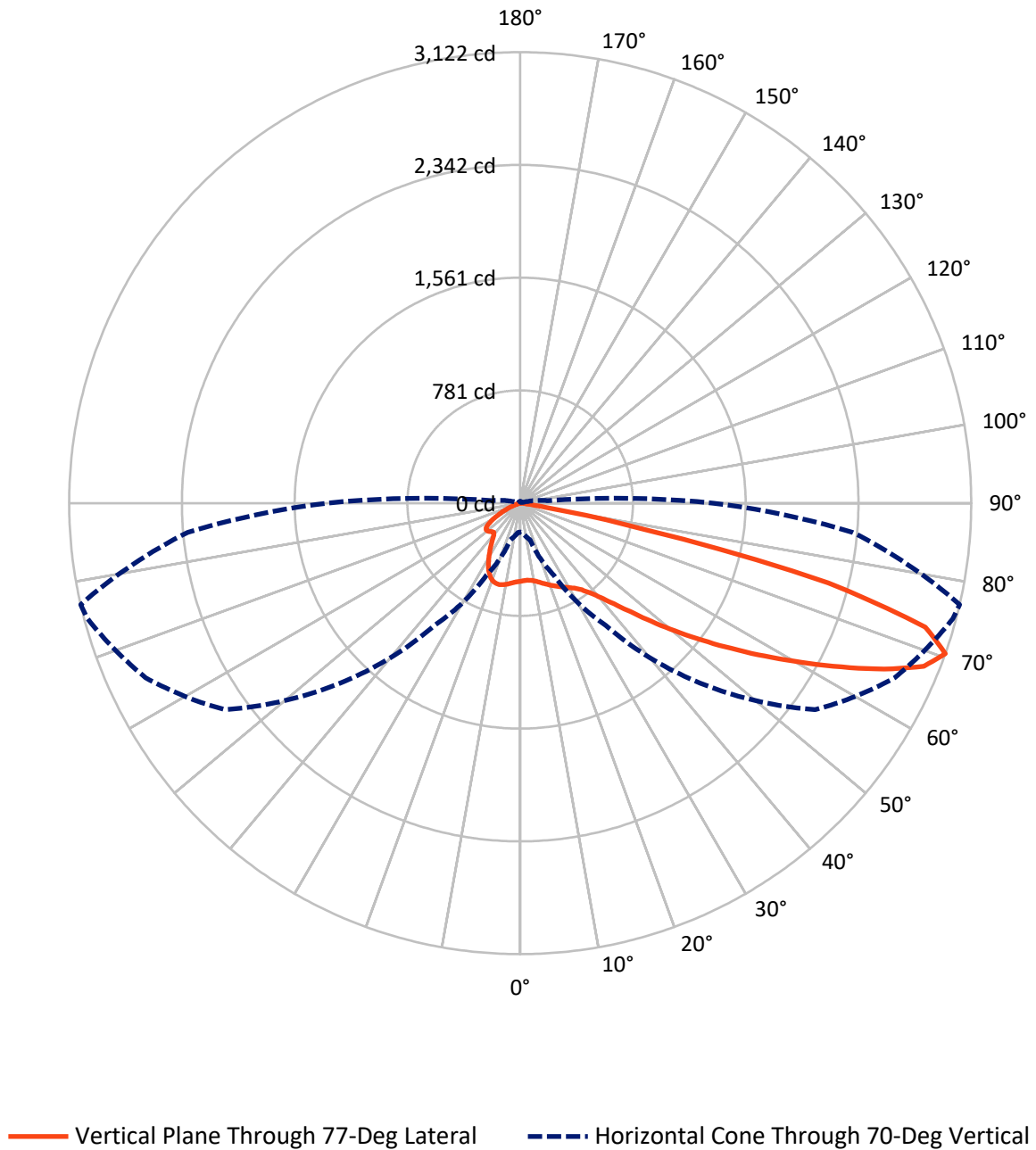
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Based on 25 foot mounting height. Maximum calculated value = 1 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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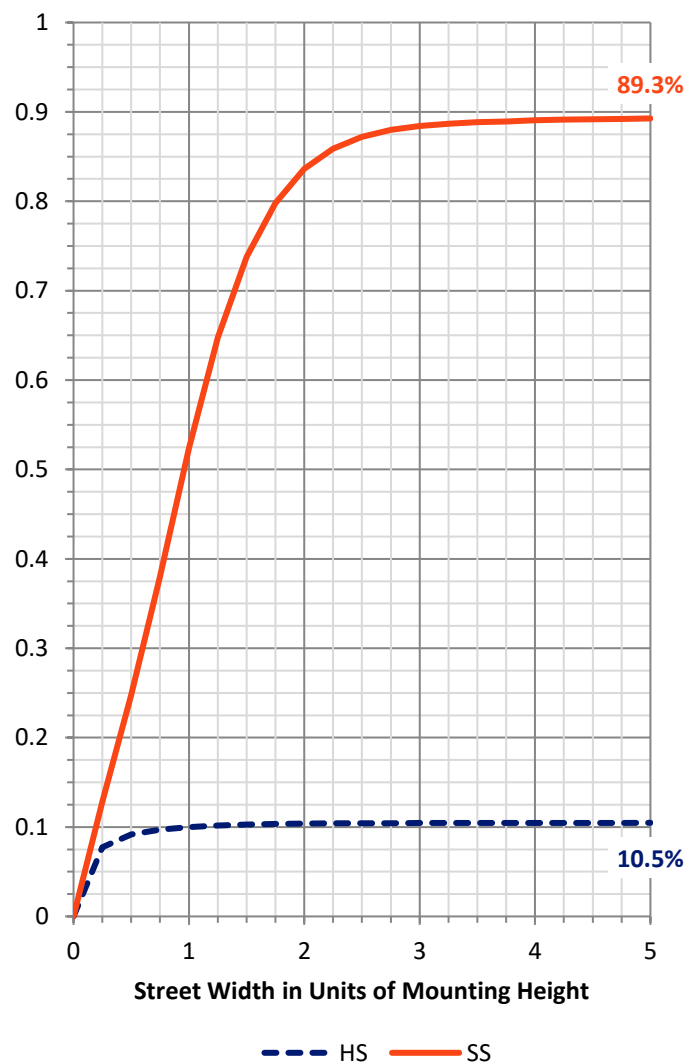
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	365.3	0.0	365.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	3099.7	0.0	3099.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	3465.0	0.0	3465.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	1.3
10°-20°	110.6	3.2
20°-30°	171.0	4.9
30°-40°	310.3	9.0
40°-50°	585.8	16.9
50°-60°	846.5	24.4
60°-70°	901.0	26.0
70°-80°	477.5	13.8
80°-90°	15.7	0.5
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°	3465.0	100.0
0°-180°	3465.0	100.0

Coefficient of Utilization



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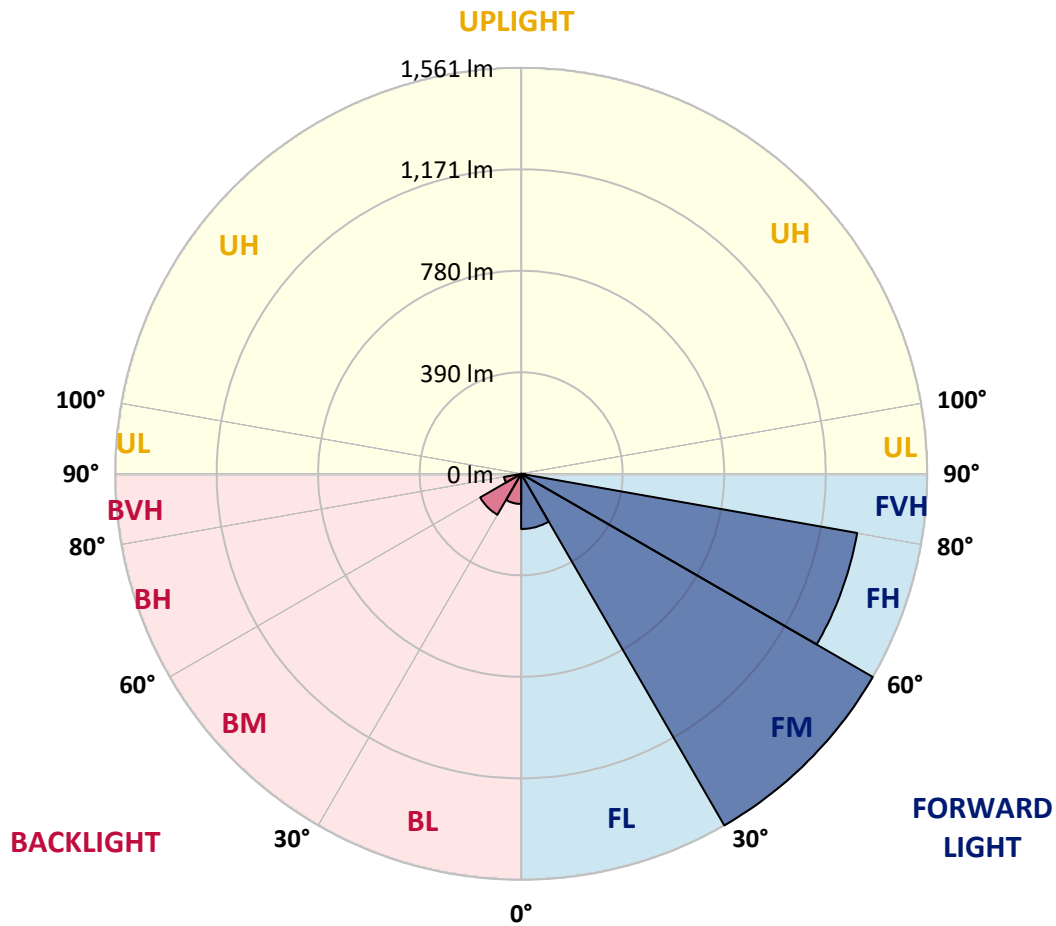
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	212.1	6.1			
FM	(30°-60°)	1560.8	45.0			
FH	(60°-80°)	1311.6	37.9			G1/1800
FVH	(80°-90°)	15.3	0.4			G1/100
BL	(0°-30°)	116.0	3.3	B1/500		
BM	(30°-60°)	181.8	5.2	B0/220		
BH	(60°-80°)	67.0	1.9	B0/110		G0/110
BVH	(80°-90°)	0.4	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-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5
2.5°	507.4	512.0	511.4	514.4	515.5	519.9	524.3	530.2	536.8	536.5	540.9
5°	478.8	483.4	484.5	488.6	493.9	500.7	509.6	521.4	533.7	535.7	544.4
7.5°	444.9	449.7	452.5	460.8	470.5	484.5	499.1	516.4	536.8	539.6	556.5
10°	410.9	415.3	419.0	430.9	446.2	467.0	490.8	515.8	543.1	547.3	571.1
12.5°	389.9	394.1	398.2	408.5	427.6	453.0	485.3	518.8	553.6	559.5	591.0
15°	382.5	386.2	389.5	398.7	416.4	445.3	484.2	525.2	567.0	574.8	615.1
17.5°	383.6	385.6	387.7	394.7	412.0	441.8	486.2	536.1	582.7	589.7	639.2
20°	389.9	391.0	391.2	396.1	411.4	441.4	490.1	546.6	597.6	607.0	663.0
22.5°	398.0	398.5	398.0	401.3	415.5	444.6	495.4	559.3	614.2	623.0	687.1
25°	435.9	427.6	417.1	410.7	422.5	451.0	503.3	576.4	632.4	640.9	710.5
27.5°	553.4	529.5	491.9	449.7	437.0	460.2	514.2	593.6	650.8	658.4	735.7
30°	744.2	712.9	649.0	553.8	483.4	479.4	528.4	610.9	670.2	678.6	762.6
32.5°	935.4	927.8	854.0	722.3	587.7	522.3	552.1	634.3	696.1	702.6	798.9
35°	1128.9	1113.3	1052.9	922.8	748.6	609.6	591.5	665.0	730.0	737.4	851.9
37.5°	1277.0	1267.6	1230.2	1123.0	939.4	744.4	658.9	712.5	779.2	787.5	919.7
40°	1407.9	1403.5	1390.8	1320.1	1152.7	920.8	763.7	786.0	847.5	857.3	1002.8
42.5°	1510.7	1521.0	1528.2	1508.5	1372.6	1122.1	904.6	889.3	942.7	952.7	1108.7
45°	1616.0	1619.5	1648.6	1677.0	1591.0	1332.6	1063.4	1010.3	1061.0	1073.5	1235.7
47.5°	1683.6	1697.6	1748.8	1798.9	1774.6	1541.3	1234.1	1153.2	1198.2	1221.7	1377.9
50°	1688.6	1715.1	1785.5	1872.9	1908.3	1740.0	1419.7	1316.0	1363.9	1389.7	1529.7
52.5°	1604.8	1645.9	1755.1	1882.9	1980.5	1908.3	1611.6	1478.8	1540.3	1573.9	1687.3
55°	1230.4	1284.2	1640.7	1828.2	1983.4	2035.9	1798.5	1648.3	1736.7	1774.8	1857.5
57.5°	1072.0	1099.1	1289.9	1733.2	1930.6	2087.3	1967.4	1809.8	1950.5	1997.8	2018.4
60°	891.9	927.6	1081.8	1577.9	1859.1	2092.3	2116.6	2018.1	2182.3	2235.4	2165.8
62.5°	606.1	644.9	798.2	1310.9	1761.3	2089.9	2238.9	2232.6	2439.8	2496.9	2290.8
65°	375.5	399.8	500.9	1070.5	1624.5	2092.5	2366.9	2493.0	2711.6	2769.6	2387.5
67.5°	296.7	307.9	360.6	821.9	1388.8	2033.5	2494.7	2737.8	2967.4	3013.3	2417.1
70°	199.3	206.1	262.4	551.0	1033.3	1760.8	2492.3	2860.8	3099.1	3122.1	2309.4
72.5°	105.0	110.3	153.4	255.1	624.1	1251.6	2100.9	2713.8	2968.0	2933.5	1973.9
75°	52.5	61.3	103.3	129.5	266.5	698.0	1304.6	2139.6	2336.1	2202.2	1266.5
77.5°	39.8	48.1	85.3	85.3	92.8	235.0	552.5	1166.9	1076.4	896.3	371.8
80°	25.4	32.8	74.6	64.6	38.7	59.7	144.0	326.9	228.7	174.0	67.6
82.5°	14.9	21.4	62.1	42.7	21.7	22.1	40.7	69.6	59.3	46.2	20.8
85°	5.9	14.0	42.7	16.8	8.5	5.5	12.3	14.9	12.3	9.2	5.3
87.5°	0.0	3.3	7.4	0.0	0.7	0.4	0.9	1.1	1.1	0.9	1.8
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°	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5
2.5°	542.9	543.3	544.6	544.9	541.8	537.9	536.3	535.7	533.0	532.8	533.3
5°	549.4	551.4	549.4	543.8	530.2	511.2	496.7	484.9	474.2	470.9	468.9
7.5°	562.6	564.5	558.6	536.3	502.2	464.3	430.2	406.1	384.5	376.4	373.1
10°	581.4	584.0	565.4	520.3	460.0	399.1	341.4	300.7	268.9	256.0	250.5
12.5°	605.0	606.1	569.1	496.1	405.0	318.2	236.3	192.8	164.6	154.0	150.8
15°	631.1	629.5	569.6	463.0	330.2	224.9	154.3	126.7	115.3	111.8	111.8
17.5°	658.4	652.1	560.8	415.3	248.1	153.8	114.4	107.9	105.9	105.0	104.8
20°	685.3	671.1	544.9	353.0	178.1	114.9	103.9	102.0	100.9	100.4	100.0
22.5°	709.8	685.6	517.5	280.5	129.3	101.5	98.2	96.5	94.5	93.7	93.4
25°	733.7	693.9	479.0	212.9	103.5	95.0	92.3	89.1	86.4	85.3	84.9
27.5°	756.9	699.1	430.9	157.5	92.3	88.8	84.0	79.4	77.5	77.0	76.6
30°	781.6	700.9	376.1	117.5	85.6	81.2	74.2	68.9	67.8	68.1	68.1
32.5°	811.8	703.5	321.0	96.3	79.9	72.0	63.7	58.2	57.3	58.2	58.0
35°	847.9	708.7	267.8	88.6	74.8	62.6	53.6	49.0	48.1	48.8	48.6
37.5°	896.9	717.3	218.2	87.1	70.7	54.7	45.1	41.4	41.4	41.6	41.4
40°	962.1	740.0	173.7	86.0	68.5	48.8	38.1	36.5	37.2	37.6	37.6
42.5°	1041.6	788.4	143.8	84.7	66.1	46.2	34.6	33.9	35.0	35.4	35.4
45°	1130.6	849.7	133.3	82.5	63.9	47.9	33.0	32.2	33.5	33.7	33.9
47.5°	1222.7	909.6	131.9	80.1	61.7	50.5	32.6	30.6	32.2	32.4	32.6
50°	1316.0	948.8	133.3	76.4	58.2	50.5	32.8	29.1	30.4	31.1	31.3
52.5°	1409.8	966.7	132.4	68.3	52.1	47.5	32.8	27.8	29.1	29.5	29.5
55°	1500.9	963.2	119.0	56.2	44.2	42.0	31.9	26.7	27.6	27.8	27.8
57.5°	1572.9	914.4	94.3	43.8	35.9	35.0	29.1	25.4	26.0	25.8	25.8
60°	1610.5	807.2	67.4	33.7	28.2	27.6	25.6	23.6	24.1	23.0	22.8
62.5°	1610.9	665.4	45.1	26.7	22.5	21.9	21.9	21.2	20.8	18.6	17.9
65°	1576.6	508.1	30.0	21.2	18.2	17.1	18.4	18.2	16.6	13.6	13.1
67.5°	1498.7	333.0	22.8	16.6	14.0	13.3	14.7	15.3	14.2	11.4	11.2
70°	1338.5	193.9	18.8	12.9	10.5	9.8	11.8	13.1	11.8	9.2	8.8
72.5°	1111.8	104.6	15.3	9.6	7.2	6.6	9.4	10.7	9.4	6.8	6.6
75°	721.4	56.0	11.8	6.3	3.7	4.2	7.0	7.9	6.6	4.4	3.9
77.5°	242.2	24.7	7.4	3.1	1.8	1.8	4.2	4.8	3.1	1.5	1.3
80°	54.0	10.3	3.1	1.3	0.7	0.7	0.9	0.9	0.4	0.0	0.0
82.5°	17.7	4.2	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.8	1.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	0.2	0.0	0.0	0.0	0.0	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)