

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: P945243

Luminaire Tested: **GALN-SB1B-730-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945243
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-730-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5737 lumens
Efficiency: N/A
Efficacy: 144.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 39.8
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



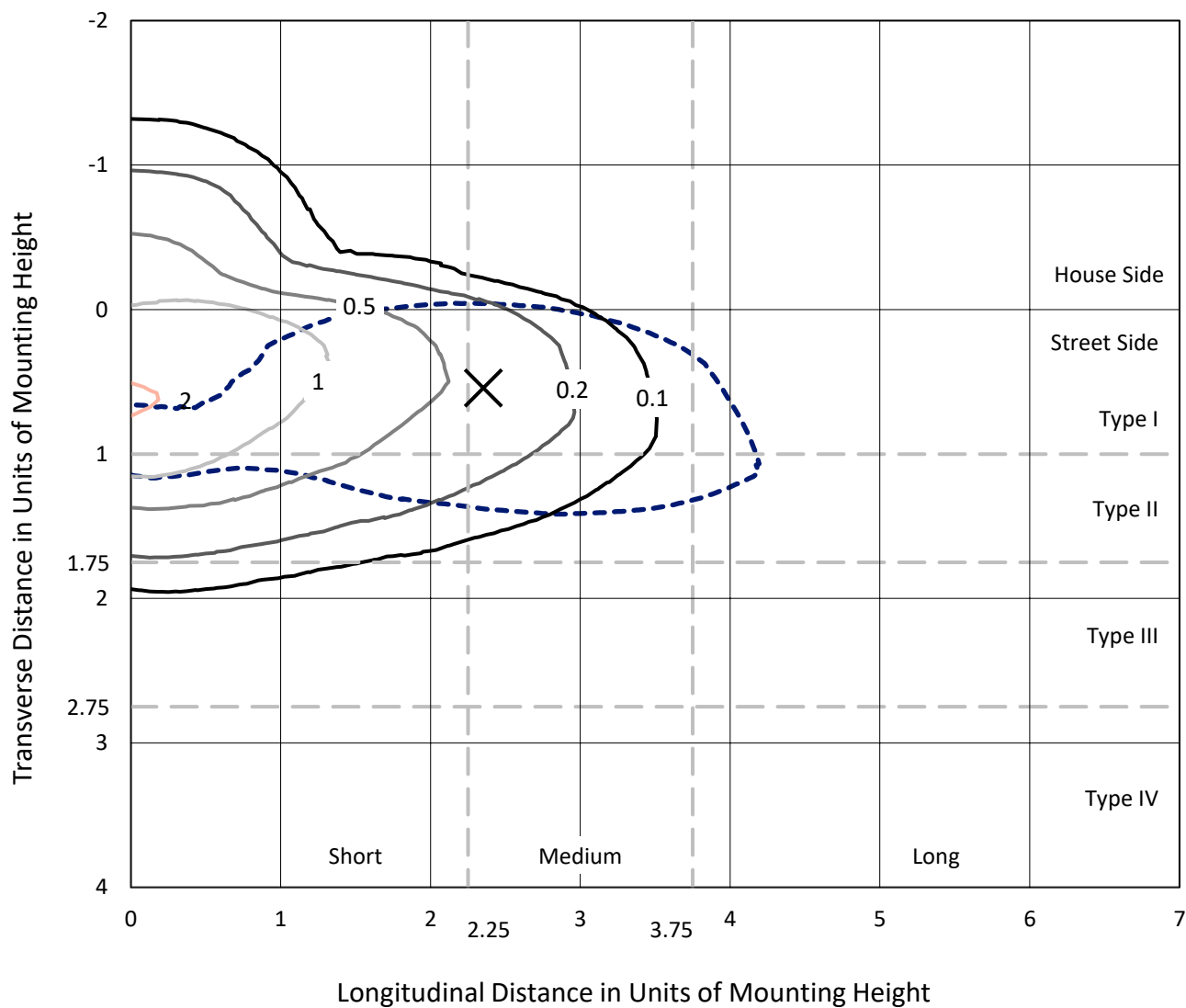
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Iso-Footcandle Lines of Horizontal Illumination

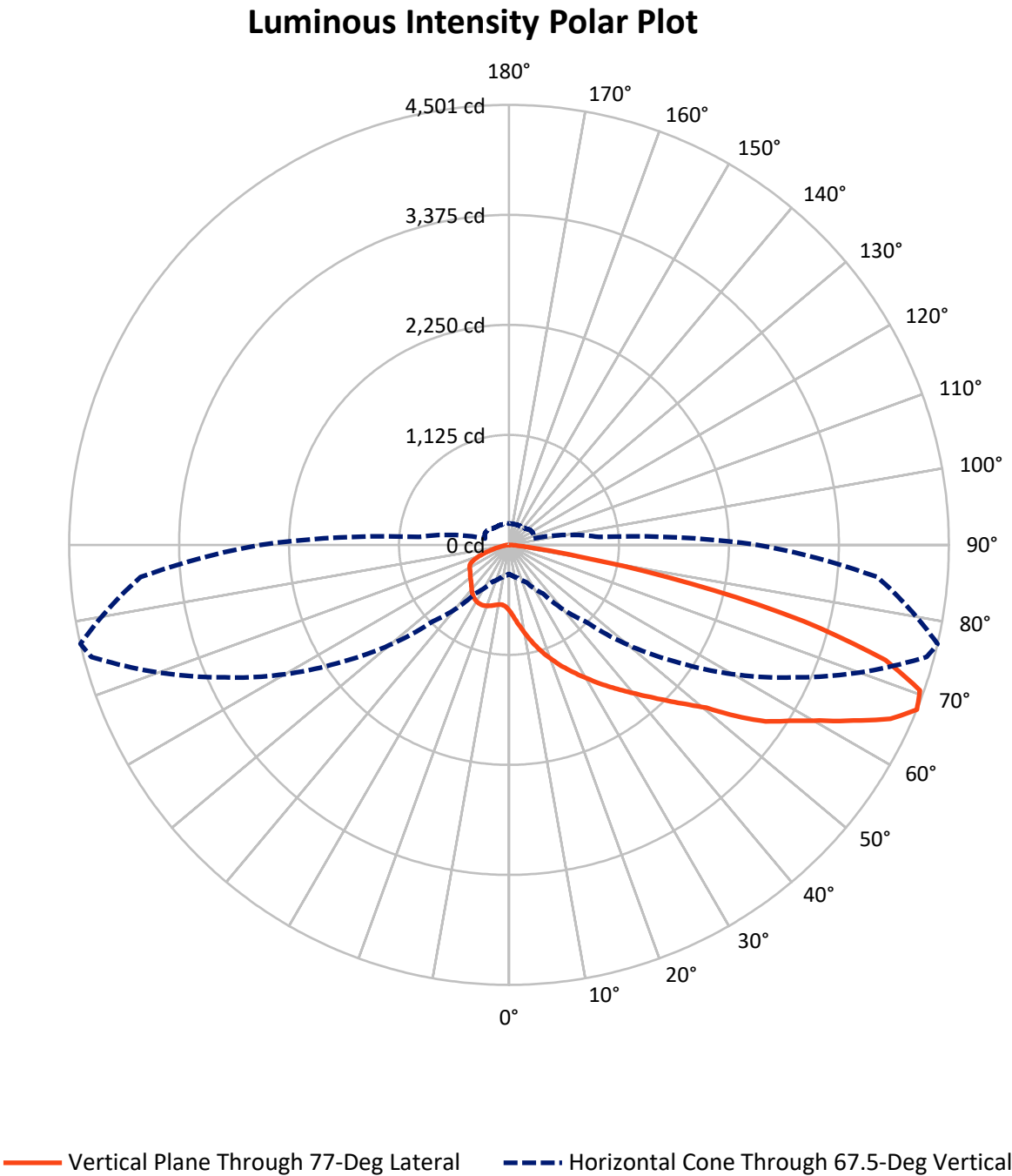
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type II - Medium - N/A

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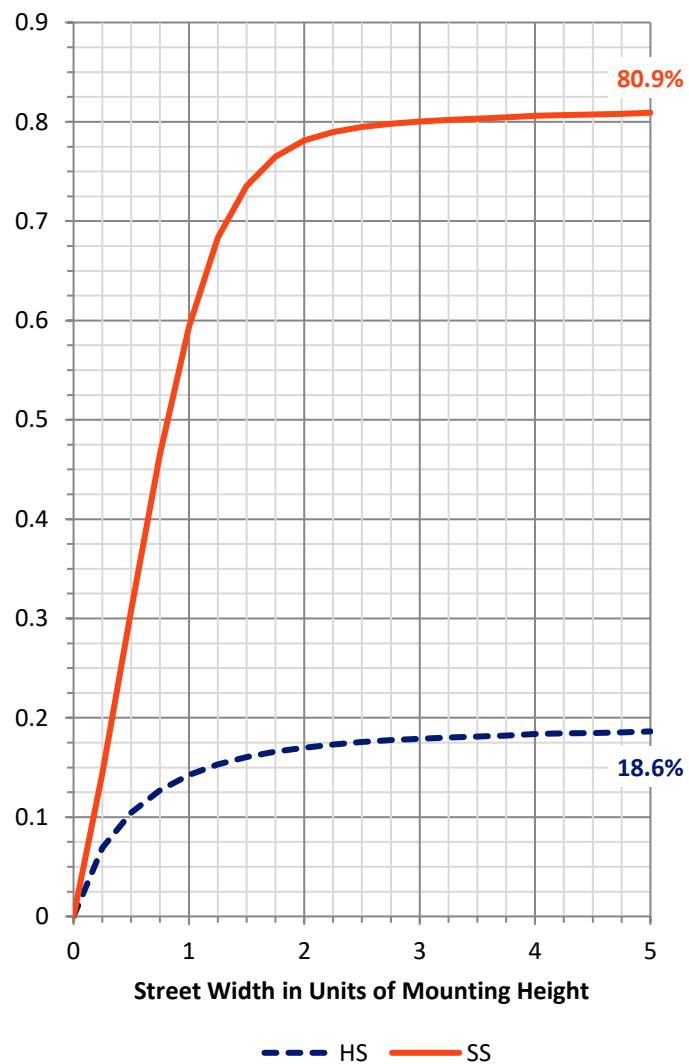
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1085.2	0.0	1085.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	4651.8	0.0	4651.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	5737.0	0.0	5737.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.1	1.3
10°-20°	259.2	4.5
20°-30°	489.4	8.5
30°-40°	788.4	13.7
40°-50°	1078.4	18.8
50°-60°	1216.5	21.2
60°-70°	1135.4	19.8
70°-80°	622.4	10.8
80°-90°	75.1	1.3
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°	5737.0	100.0
0°-180°	5737.0	100.0

Coefficient of Utilization



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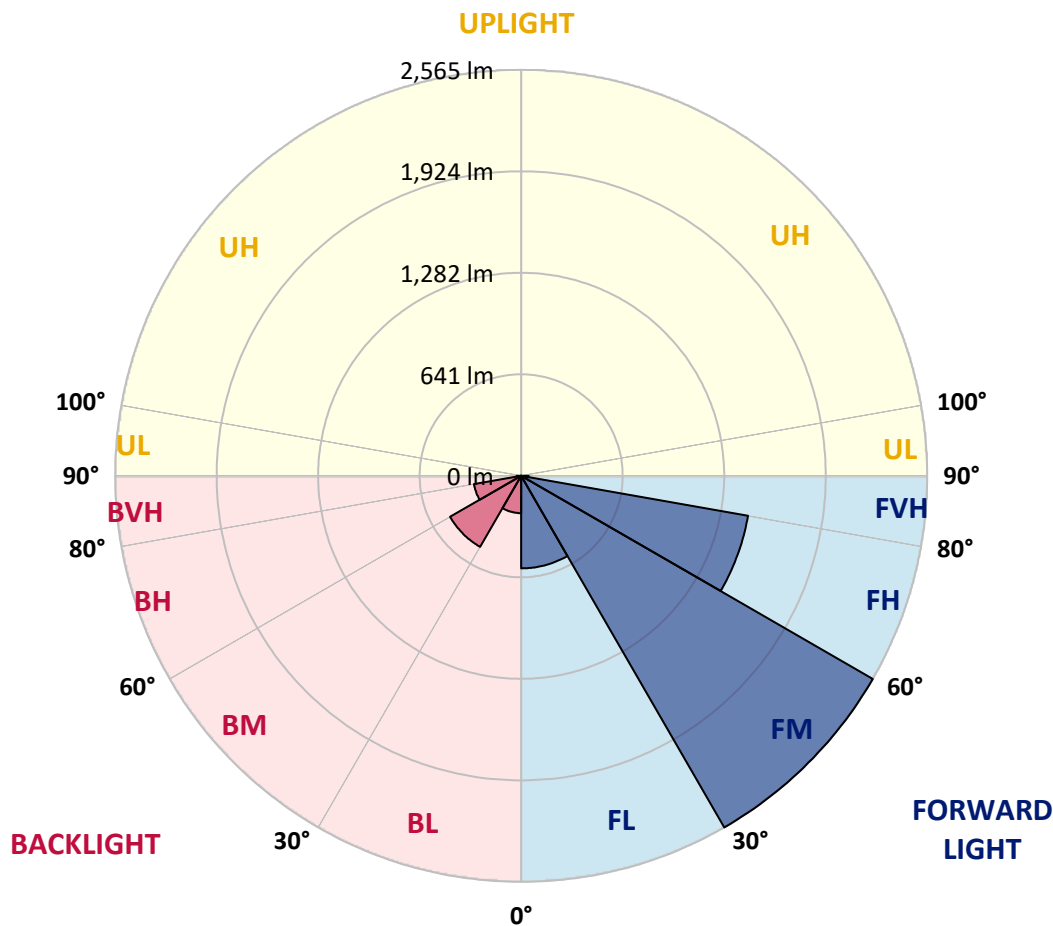
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	584.8	10.2			
FM	(30°-60°)	2564.9	44.7			
FH	(60°-80°)	1455.1	25.4			G1/1800
FVH	(80°-90°)	47.0	0.8			G1/100
BL	(0°-30°)	235.9	4.1	B1/500		
BM	(30°-60°)	518.4	9.0	B1/1000		
BH	(60°-80°)	302.8	5.3	B1/500		G1/500
BVH	(80°-90°)	28.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	673.1	673.1	673.1	673.1	673.1	673.1	673.1	673.1	673.1	673.1	673.1
2.5°	842.8	848.7	841.3	841.3	816.5	803.4	778.6	759.6	725.5	719.6	697.1
5°	996.2	1003.6	993.3	988.8	959.5	932.5	890.8	849.6	788.9	782.7	729.7
7.5°	1115.0	1124.4	1115.3	1110.5	1084.5	1054.3	1005.4	947.9	862.4	850.2	773.5
10°	1211.8	1213.3	1210.3	1212.1	1191.7	1166.8	1116.7	1049.8	942.9	926.3	826.5
12.5°	1266.6	1273.4	1279.3	1290.0	1286.4	1271.0	1226.0	1146.1	1028.2	1006.9	884.3
15°	1292.4	1304.2	1317.5	1342.1	1362.0	1365.8	1331.4	1249.4	1115.0	1089.2	942.6
17.5°	1301.5	1312.8	1333.8	1369.4	1412.0	1440.7	1425.3	1349.8	1200.9	1171.2	1003.9
20°	1348.0	1351.3	1364.0	1397.8	1444.0	1491.7	1503.2	1446.4	1285.8	1252.4	1067.3
22.5°	1447.5	1441.0	1444.6	1460.0	1493.1	1539.3	1565.7	1531.6	1373.2	1334.7	1131.3
25°	1611.9	1592.9	1574.0	1556.2	1573.1	1599.2	1629.1	1616.9	1464.7	1415.8	1195.8
27.5°	1819.5	1796.4	1754.6	1696.3	1675.9	1685.0	1698.4	1696.0	1549.4	1500.0	1262.4
30°	2023.8	1996.9	1947.1	1862.7	1808.8	1784.5	1774.5	1767.7	1641.5	1588.8	1329.7
32.5°	2187.0	2165.7	2116.8	2022.3	1944.2	1902.7	1869.2	1845.0	1737.8	1685.0	1400.7
35°	2329.7	2309.9	2253.9	2150.9	2065.9	2021.8	1977.9	1926.1	1837.9	1784.5	1477.2
37.5°	2460.0	2440.2	2363.5	2256.3	2170.7	2140.2	2101.1	2013.2	1938.2	1887.9	1558.0
40°	2542.4	2537.9	2466.3	2344.8	2256.0	2240.9	2227.9	2114.2	2049.6	2002.8	1646.8
42.5°	2563.4	2573.2	2516.3	2416.5	2331.8	2319.7	2350.2	2228.5	2174.6	2129.8	1747.5
45°	2512.8	2540.9	2503.6	2435.8	2385.7	2379.2	2458.6	2353.4	2312.9	2272.0	1868.9
47.5°	2384.5	2432.2	2416.8	2407.3	2400.2	2428.4	2553.9	2486.1	2469.5	2434.0	2007.5
50°	2125.7	2216.0	2243.0	2302.8	2371.5	2466.6	2640.7	2630.9	2652.5	2616.7	2176.3
52.5°	1678.2	1802.6	1959.0	2108.8	2283.2	2453.8	2736.0	2838.8	2930.0	2910.5	2444.6
55°	1385.3	1441.3	1561.6	1836.4	2112.1	2400.2	2779.0	3006.7	3205.4	3188.0	2648.1
57.5°	1160.3	1210.3	1284.4	1513.9	1853.2	2278.5	2805.6	3109.2	3394.1	3392.3	2848.9
60°	918.9	971.9	1047.7	1210.3	1550.9	2068.2	2799.7	3225.9	3634.8	3649.6	3093.8
62.5°	646.5	704.8	788.9	940.5	1242.0	1795.8	2678.9	3310.3	3918.2	3958.5	3388.4
65°	425.0	463.5	526.8	657.7	925.4	1445.5	2448.2	3321.2	4221.5	4289.6	3665.0
67.5°	297.9	312.7	350.0	421.1	610.1	1108.5	2080.7	3207.8	4423.8	4500.5	3785.0
70°	232.5	239.9	258.8	287.3	383.2	745.4	1594.4	2912.8	4380.5	4460.5	3659.7
72.5°	200.8	207.9	215.0	218.6	257.1	460.2	1080.0	2435.5	3973.3	4027.5	3182.0
75°	182.1	183.9	189.8	188.6	196.0	298.5	623.4	1774.5	3134.9	3116.3	2349.0
77.5°	153.1	155.5	165.2	163.8	174.1	204.0	323.7	1145.2	2032.4	1905.7	1307.5
80°	129.7	130.9	141.6	139.8	151.3	147.8	165.2	583.7	862.1	730.3	377.0
82.5°	45.0	55.7	108.1	111.3	115.5	89.4	95.4	238.1	263.3	201.7	79.1
85°	21.9	23.4	55.1	78.2	77.9	45.0	46.5	85.0	82.9	65.2	26.4
87.5°	3.6	4.4	6.5	30.5	24.3	11.8	16.0	16.6	17.2	14.8	5.9
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°	673.1	673.1	673.1	673.1	673.1	673.1	673.1	673.1	673.1	673.1	673.1
2.5°	680.5	665.7	634.6	605.9	583.4	561.8	549.6	539.3	533.3	532.2	532.2
5°	698.9	668.4	611.8	564.1	533.1	510.0	497.8	490.1	486.3	483.9	483.6
7.5°	725.2	680.5	600.0	545.8	513.2	496.6	490.4	489.2	488.9	489.2	490.1
10°	761.7	700.4	598.8	541.3	514.1	504.9	504.6	504.9	506.1	506.4	506.7
12.5°	801.1	720.8	603.5	545.2	525.4	520.3	519.4	519.1	520.0	520.6	520.9
15°	844.0	747.8	611.5	553.5	537.8	532.5	531.6	529.8	529.5	529.2	528.9
17.5°	888.1	774.4	620.4	562.4	545.8	538.4	535.1	531.0	527.7	526.8	527.7
20°	932.8	800.8	626.6	566.8	546.4	536.0	529.5	522.4	516.8	513.5	514.7
22.5°	980.5	828.3	630.5	565.6	541.0	526.8	515.0	506.7	498.1	492.5	492.8
25°	1027.0	852.3	630.2	559.4	530.7	512.6	497.5	486.9	475.0	469.1	469.1
27.5°	1071.7	873.9	622.8	548.5	515.9	495.7	477.7	464.9	453.4	447.8	447.5
30°	1117.9	892.0	611.2	532.5	498.4	476.2	456.4	445.4	435.0	429.7	429.4
32.5°	1163.8	908.6	594.9	512.6	478.3	456.9	437.4	427.3	421.1	421.1	421.4
35°	1212.4	920.1	573.3	489.5	456.9	436.5	421.1	415.2	414.6	411.0	410.2
37.5°	1263.6	927.5	547.0	465.8	435.9	416.7	411.9	404.8	398.9	391.2	390.0
40°	1317.5	934.9	515.3	441.2	413.7	403.0	401.0	391.5	374.6	355.7	353.0
42.5°	1383.0	940.0	482.4	416.7	390.3	386.8	389.7	373.4	346.5	332.3	332.6
45°	1458.8	948.2	452.2	392.4	366.3	366.3	378.8	357.4	335.2	326.3	327.8
47.5°	1557.1	967.5	424.1	365.7	344.1	350.0	354.5	338.2	325.8	314.8	314.5
50°	1699.3	1013.7	395.1	338.8	327.2	339.1	332.9	323.4	308.9	300.0	299.1
52.5°	1875.8	1040.9	369.3	314.5	312.7	324.6	315.7	306.8	295.8	284.0	281.6
55°	1996.0	1046.0	347.7	296.7	303.0	301.8	298.5	290.5	284.6	268.9	269.2
57.5°	2130.4	1056.0	329.9	286.1	296.7	283.7	282.5	275.7	268.0	257.3	253.8
60°	2291.2	1071.7	314.5	281.9	291.4	271.9	265.9	263.3	255.6	250.2	251.7
62.5°	2466.6	1085.9	298.8	282.5	285.2	260.3	251.4	250.5	245.8	244.0	244.0
65°	2586.2	1047.2	279.3	281.9	275.4	248.5	237.2	236.9	233.1	232.5	232.2
67.5°	2544.4	924.3	252.9	273.6	265.3	236.6	224.2	223.0	218.0	218.3	218.3
70°	2335.4	748.9	216.5	253.2	252.9	226.0	210.6	206.7	199.9	201.1	202.3
72.5°	1943.3	555.0	167.6	219.1	233.1	216.2	194.9	188.6	180.1	181.2	180.9
75°	1403.4	377.3	122.0	166.7	202.9	204.6	179.5	168.8	158.4	160.2	160.8
77.5°	718.1	213.8	89.7	114.9	159.3	186.0	165.5	151.3	149.0	165.5	163.2
80°	234.2	107.2	62.2	80.6	104.5	152.2	145.1	128.8	128.2	132.1	113.4
82.5°	69.9	45.3	40.0	53.0	57.7	116.7	125.3	97.4	83.8	88.2	91.2
85°	24.0	21.9	22.8	26.4	27.5	68.4	87.7	64.6	61.0	67.2	66.3
87.5°	5.6	7.7	6.5	5.9	5.9	16.6	34.1	26.9	37.3	24.9	24.0
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)