

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: LUMARK

Report Number: P883310

Luminaire Tested: **NAV-SB3C-830-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-830-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14882 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

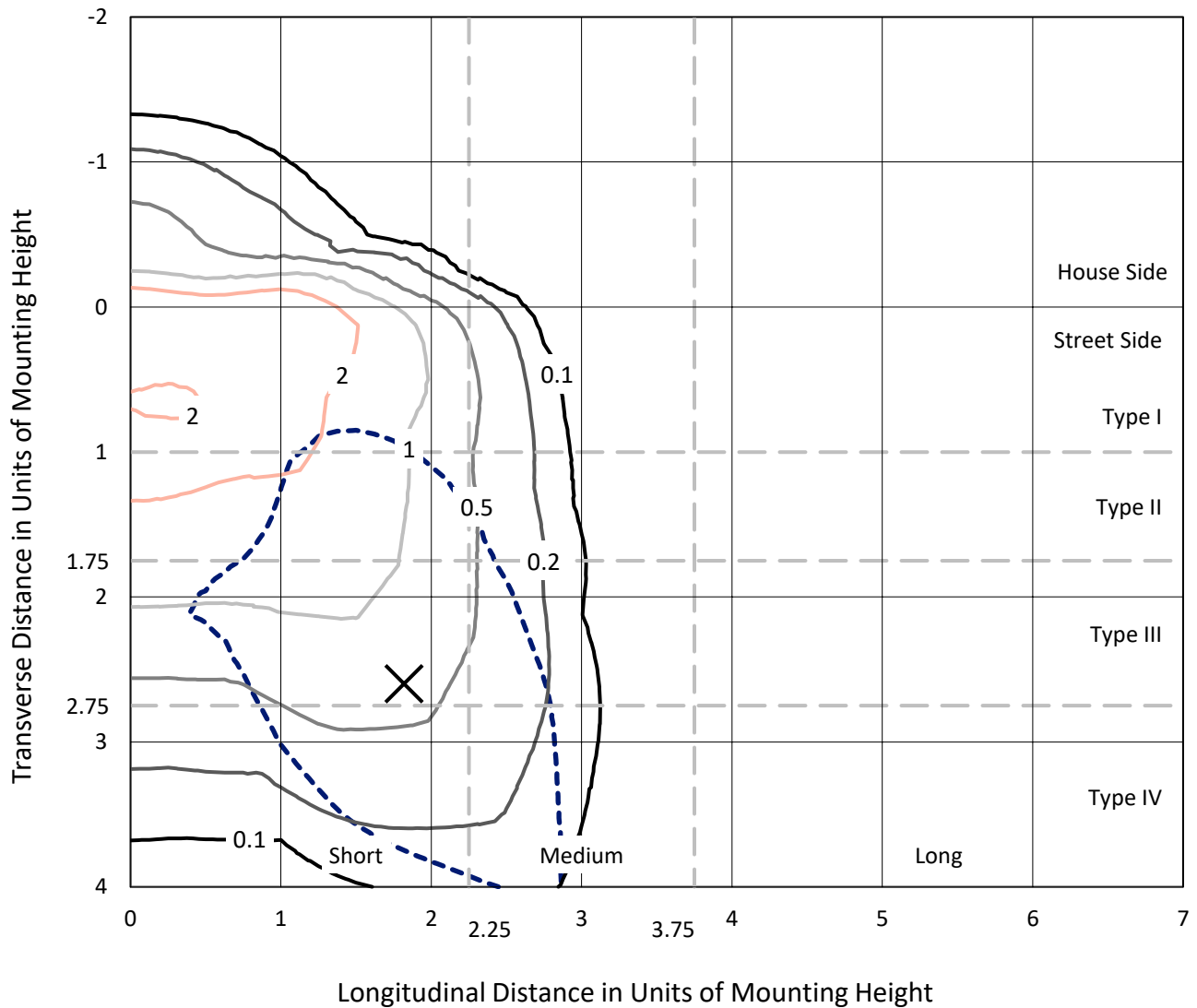
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P883310
 CATALOG NUMBER: NAV-SB3C-830-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

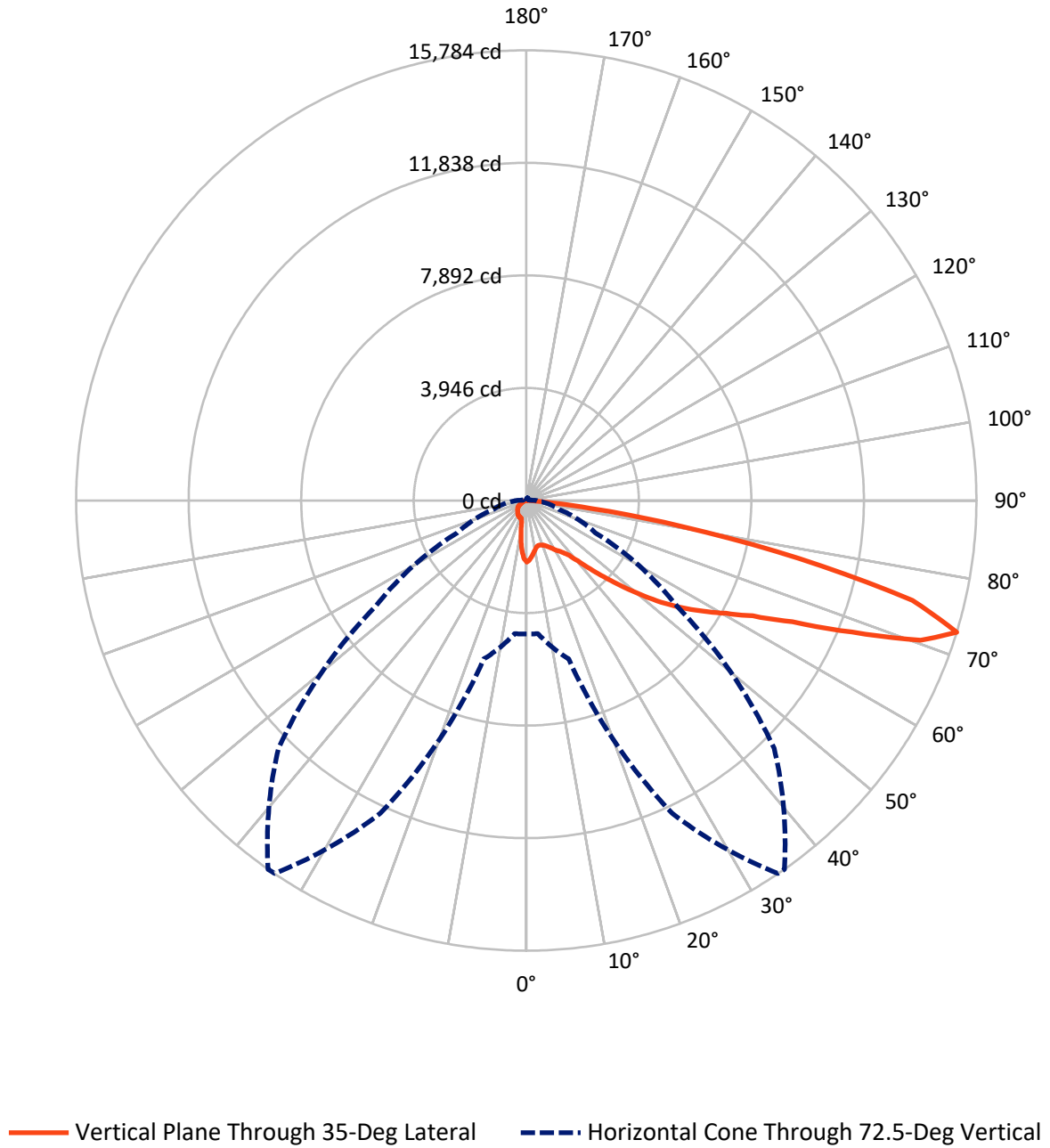
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P883310
CATALOG NUMBER: NAV-SB3C-830-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P883310
 CATALOG NUMBER: NAV-SB3C-830-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1674.9	0.0	1674.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	13207.1	0.0	13207.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	14882.0	0.0	14882.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.2	1.2
10°-20°	414.6	2.8
20°-30°	673.6	4.5
30°-40°	1123.8	7.6
40°-50°	2126.3	14.3
50°-60°	3378.7	22.7
60°-70°	4179.7	28.1
70°-80°	2598.1	17.5
80°-90°	210.0	1.4
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°	14882.0	100.0
0°-180°	14882.0	100.0

Coefficient of Utilization



REPORT NUMBER: P883310

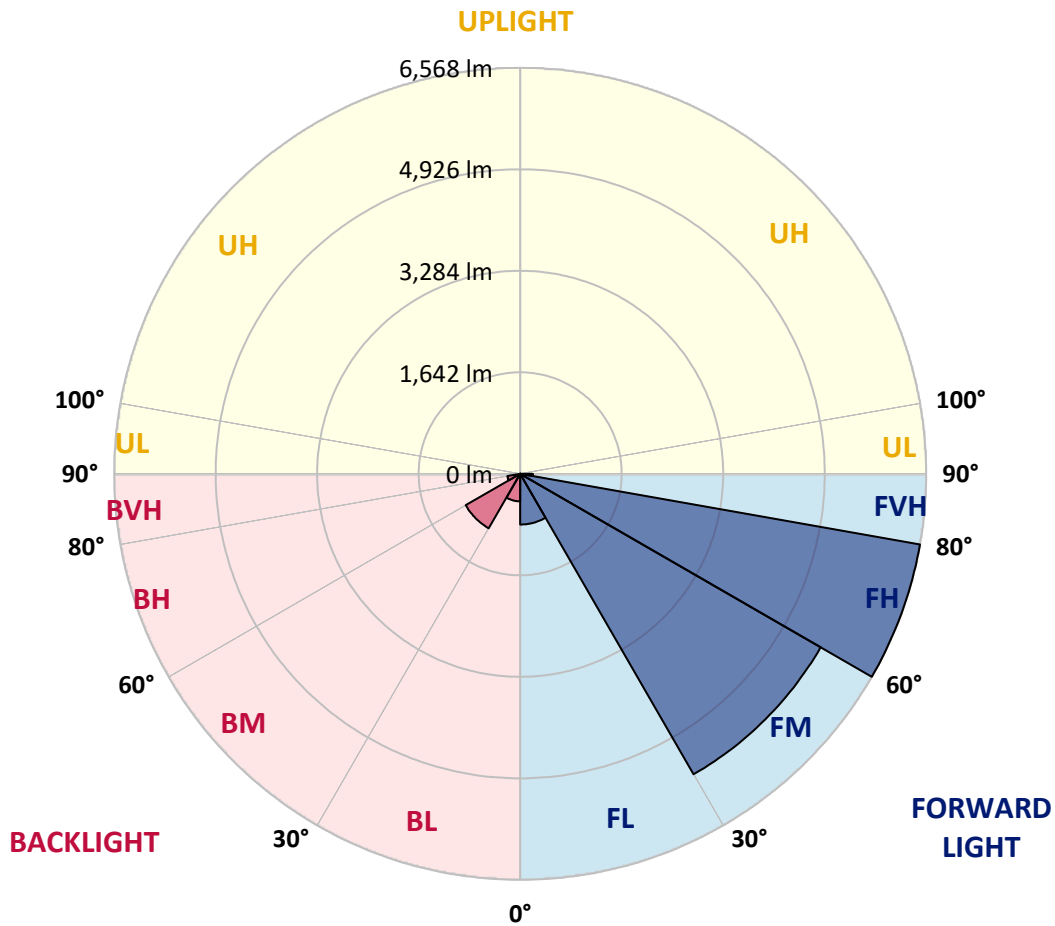
CATALOG NUMBER: NAV-SB3C-830-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	820.4	5.5			
FM (30°-60°)	5612.0	37.7			
FH (60°-80°)	6567.6	44.1			G3/7500
FVH (80°-90°)	207.1	1.4			G2/225
BL (0°-30°)	445.1	3.0	B1/500		
BM (30°-60°)	1016.8	6.8	B2/2500		
BH (60°-80°)	210.2	1.4	B1/500		G1/500
BVH (80°-90°)	2.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



REPORT NUMBER: P883310
 CATALOG NUMBER: NAV-SB3C-830-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9
2.5°	2060.9	2078.4	2081.7	2087.1	2087.1	2093.7	2104.6	2119.8	2144.9	2158.0	2166.7
5°	1899.6	1912.6	1929.0	1942.1	1967.2	1970.4	2013.0	2054.4	2112.2	2155.8	2186.3
7.5°	1737.1	1752.3	1774.2	1805.8	1838.5	1848.3	1912.6	1982.4	2074.0	2155.8	2207.1
10°	1622.6	1623.7	1643.3	1674.9	1727.3	1739.3	1817.8	1917.0	2031.5	2142.7	2226.7
12.5°	1558.2	1565.9	1574.6	1598.6	1648.8	1656.4	1740.4	1857.0	1989.0	2135.1	2249.6
15°	1558.2	1563.7	1569.2	1581.1	1621.5	1628.0	1702.2	1818.9	1967.2	2138.4	2286.7
17.5°	1574.6	1583.3	1579.0	1593.1	1635.7	1640.0	1705.5	1808.0	1966.1	2159.1	2343.4
20°	1613.9	1620.4	1611.7	1620.4	1662.9	1671.7	1739.3	1828.7	1984.6	2195.1	2414.2
22.5°	1676.0	1679.3	1658.6	1665.1	1708.7	1719.6	1798.1	1887.6	2029.3	2252.9	2509.1
25°	1754.5	1761.1	1729.4	1737.1	1778.5	1791.6	1882.1	1975.9	2100.2	2332.5	2630.2
27.5°	1845.0	1848.3	1821.0	1820.0	1873.4	1891.9	1983.5	2084.9	2195.1	2432.8	2782.8
30°	1948.6	1958.4	1932.3	1927.9	1995.5	2010.8	2101.3	2219.1	2334.6	2583.3	2999.8
32.5°	2030.4	2038.0	2022.8	2033.7	2102.4	2114.4	2244.1	2408.8	2553.8	2797.0	3295.3
35°	2148.2	2152.5	2117.6	2137.3	2215.8	2246.3	2439.3	2674.9	2829.7	3065.2	3681.3
37.5°	2574.5	2574.5	2426.2	2329.2	2404.4	2431.7	2706.5	3009.6	3169.9	3425.1	4167.7
40°	3164.5	3154.7	2937.7	2739.2	2729.4	2782.8	3087.1	3431.6	3609.4	3856.9	4715.1
42.5°	3793.7	3778.4	3482.9	3286.6	3253.9	3272.4	3526.5	3951.8	4132.8	4383.6	5303.9
45°	4352.0	4347.6	4077.2	3813.3	3754.4	3813.3	4075.0	4560.2	4690.0	4953.9	5891.7
47.5°	4819.8	4819.8	4622.4	4450.1	4419.6	4454.5	4817.6	5235.2	5223.2	5561.3	6464.2
50°	5358.4	5354.1	5166.5	5092.4	5124.0	5173.1	5672.5	5946.2	5775.0	6157.7	6975.6
52.5°	5735.7	5761.9	5697.6	5685.6	5847.0	5932.0	6540.5	6641.9	6269.0	6723.7	7358.3
55°	6034.5	6065.1	6139.2	6223.2	6533.9	6645.2	7381.2	7301.6	6682.2	7214.4	7578.6
57.5°	6457.6	6414.0	6528.5	6694.2	7196.9	7331.1	8195.8	7924.3	7014.8	7612.4	7602.6
60°	6971.2	6977.8	6997.4	7206.8	7858.8	8031.1	8998.4	8513.1	7228.6	7856.7	7336.5
62.5°	7588.4	7598.2	7638.6	7960.3	8747.6	8910.0	9853.3	8995.1	7326.7	7788.0	6649.5
65°	7545.9	7587.3	8037.7	9137.9	10098.6	10258.9	10851.0	9333.1	7178.4	7159.9	5414.1
67.5°	6874.2	6941.8	7695.3	10544.6	12135.6	12314.4	12057.1	9399.6	6538.3	5567.8	3532.0
70°	5993.1	6017.1	6923.2	11809.5	14494.2	14675.2	13136.6	8667.9	4961.5	3105.6	1582.2
72.5°	4680.2	4685.6	5748.8	12102.9	15774.4	15784.2	12289.3	6434.7	2668.3	1192.9	549.6
75°	3343.3	3310.6	3850.4	9815.1	13878.1	13989.3	9213.2	3018.4	1019.6	563.8	273.7
77.5°	1792.7	1828.7	2178.7	5820.8	9587.2	9776.9	5027.0	870.2	519.1	383.8	181.0
80°	553.9	584.5	893.1	2665.0	5430.4	5544.9	1863.6	387.1	362.0	273.7	118.9
82.5°	174.5	181.0	416.6	1119.9	2254.0	2306.3	539.8	219.2	247.5	181.0	69.8
85°	50.2	51.3	185.4	417.6	557.2	568.1	151.6	85.1	141.8	112.3	36.0
87.5°	5.5	17.4	69.8	69.8	49.1	48.0	16.4	18.5	40.3	14.2	6.5
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: P883310

CATALOG NUMBER: NAV-SB3C-830-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9
2.5°	2161.3	2162.4	2148.2	2124.2	2098.0	2076.2	2048.9	2027.1	2011.9	2007.5	2015.1
5°	2176.5	2168.9	2128.5	2055.5	1968.3	1893.0	1809.0	1742.5	1698.9	1680.4	1686.9
7.5°	2199.4	2177.6	2089.3	1945.4	1778.5	1630.2	1479.7	1363.1	1288.9	1251.8	1257.3
10°	2219.1	2175.4	2023.9	1786.1	1531.0	1306.4	1103.5	962.9	884.4	847.3	848.4
12.5°	2237.6	2174.3	1938.8	1597.5	1251.8	977.0	788.4	718.6	696.8	689.2	687.0
15°	2272.5	2177.6	1831.9	1381.6	973.8	738.2	669.5	668.4	672.8	670.6	669.5
17.5°	2320.5	2180.9	1710.9	1152.6	751.3	651.0	647.7	657.5	664.1	660.8	659.7
20°	2382.6	2194.0	1582.2	925.8	645.5	629.2	636.8	645.5	651.0	645.5	644.5
22.5°	2469.9	2216.9	1441.6	743.7	611.7	616.1	622.6	632.5	637.9	630.3	629.2
25°	2576.7	2252.9	1303.1	646.6	595.4	600.8	610.6	621.6	628.1	620.5	619.4
27.5°	2715.2	2310.7	1175.5	624.8	579.0	582.3	596.5	612.8	621.6	611.7	611.7
30°	2915.9	2405.5	1065.4	634.6	569.2	561.6	581.2	604.1	613.9	605.2	604.1
32.5°	3181.9	2539.6	997.8	649.9	564.9	537.6	556.1	585.6	601.9	596.5	596.5
35°	3530.9	2743.6	971.6	667.4	561.6	512.5	525.6	557.2	585.6	591.0	591.0
37.5°	3954.0	3027.1	979.2	675.0	551.8	491.8	498.3	525.6	562.7	580.1	584.5
40°	4434.8	3357.5	1022.8	667.4	540.9	474.3	475.4	496.2	528.9	555.0	563.8
42.5°	4931.0	3743.5	1103.5	639.0	531.0	459.1	455.8	470.0	491.8	510.3	518.0
45°	5403.2	4140.4	1183.1	599.7	519.1	443.8	436.2	441.6	446.0	453.6	458.0
47.5°	5815.3	4419.6	1160.2	563.8	502.7	426.4	413.3	411.1	398.0	396.9	395.8
50°	6100.0	4480.6	1030.5	527.8	478.7	406.7	386.0	372.9	350.0	339.1	340.2
52.5°	6190.5	4239.7	841.8	491.8	439.4	380.6	351.1	330.4	302.1	292.2	291.1
55°	6070.5	3767.5	672.8	448.2	384.9	345.7	313.0	285.7	262.8	250.8	250.8
57.5°	5777.2	3166.7	532.1	396.9	327.1	306.4	273.7	246.4	226.8	214.8	212.6
60°	5290.8	2514.6	420.9	335.9	279.2	263.9	230.1	212.6	195.2	181.0	177.7
62.5°	4552.6	1794.9	330.4	266.1	233.4	215.9	196.3	183.2	162.5	142.8	139.6
65°	3552.7	1098.1	255.2	195.2	187.6	178.8	166.8	154.8	129.8	110.1	106.9
67.5°	2240.9	520.1	182.1	147.2	148.3	143.9	138.5	128.7	110.1	92.7	90.5
70°	986.9	251.9	119.9	112.3	110.1	110.1	114.5	111.2	93.8	77.4	74.2
72.5°	335.9	135.2	89.4	85.1	79.6	78.5	96.0	92.7	75.2	60.0	56.7
75°	175.6	90.5	65.4	61.1	48.0	57.8	76.3	72.0	53.4	39.3	36.0
77.5°	114.5	64.3	44.7	39.3	27.3	38.2	56.7	50.2	31.6	19.6	17.4
80°	72.0	42.5	26.2	18.5	13.1	20.7	30.5	21.8	12.0	4.4	3.3
82.5°	38.2	21.8	9.8	6.5	5.5	6.5	7.6	5.5	2.2	0.0	0.0
85°	15.3	7.6	3.3	2.2	1.1	0.0	2.2	1.1	0.0	0.0	0.0
87.5°	5.5	1.1	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)