

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: P883250

Luminaire Tested: **NAV-SB3C-730-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883250
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-730-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 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: 16742 lumens
Efficiency: N/A
Efficacy: 112.3 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

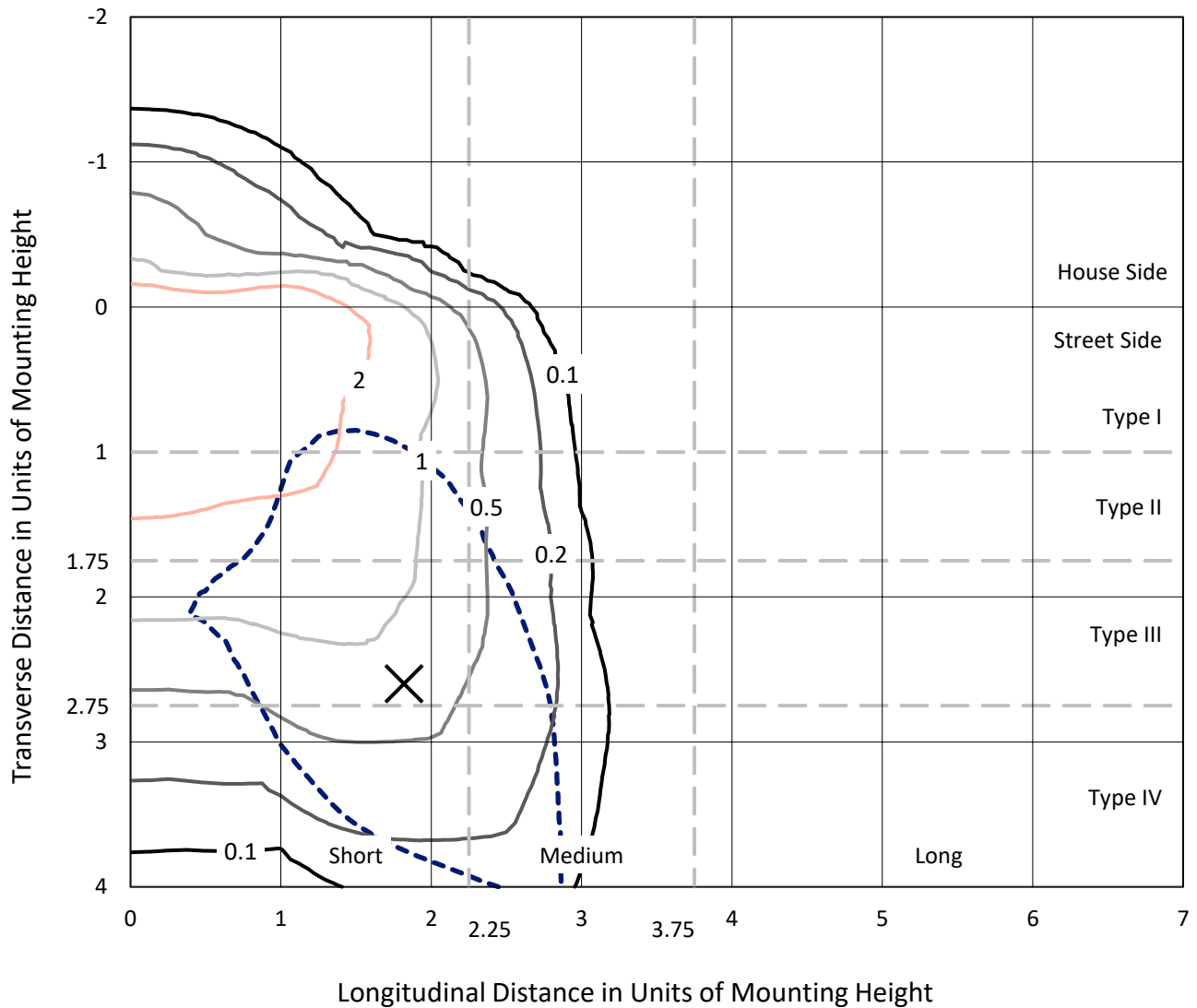
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P883250
 CATALOG NUMBER: NAV-SB3C-730-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

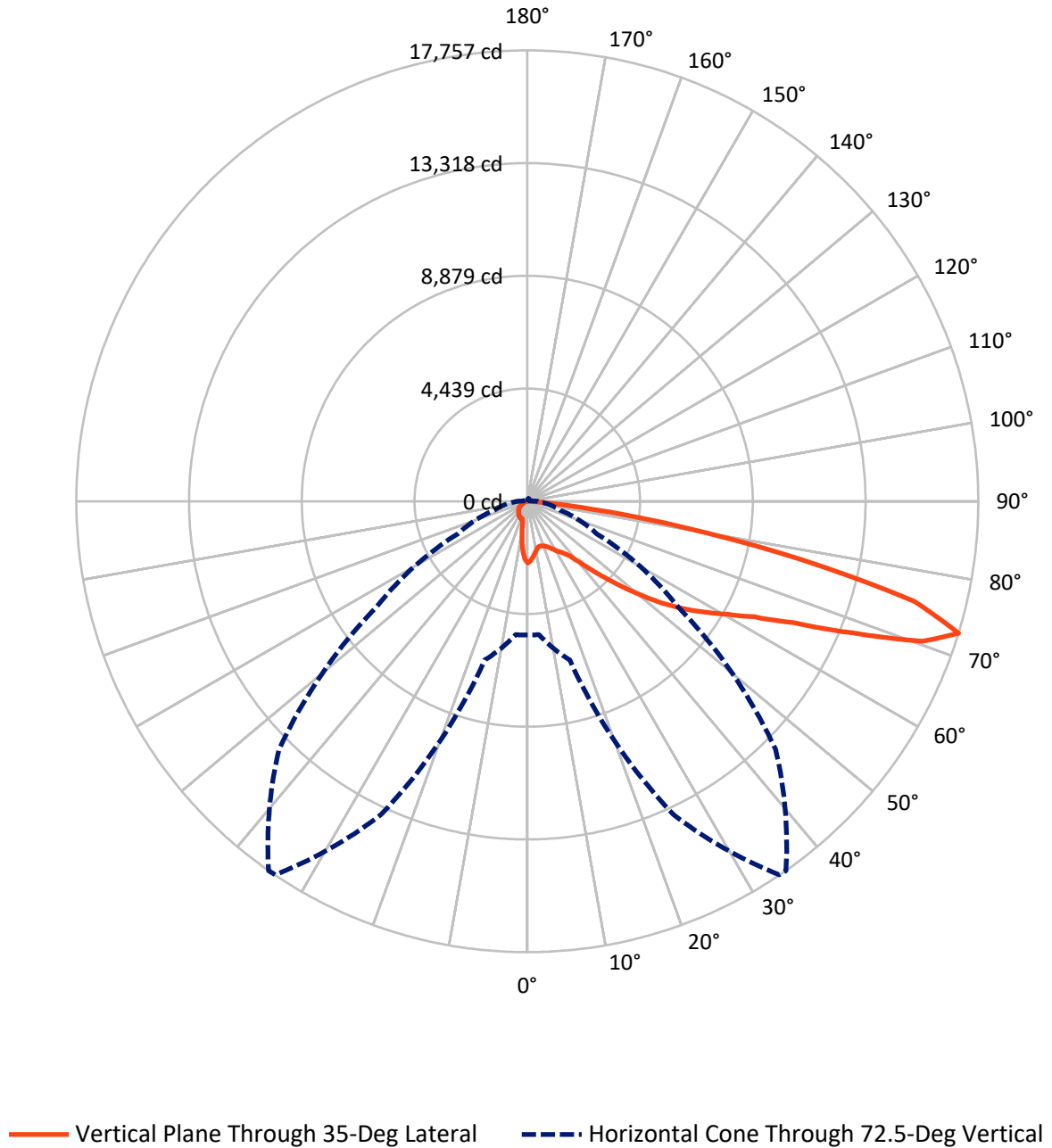
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P883250
CATALOG NUMBER: NAV-SB3C-730-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P883250
 CATALOG NUMBER: NAV-SB3C-730-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1884.2	0.0	1884.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	14857.8	0.0	14857.8
	% Fixture	88.7	0.0	88.7
Total	Lumens	16742.0	0.0	16742.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.4	1.2
10°-20°	466.5	2.8
20°-30°	757.7	4.5
30°-40°	1264.3	7.6
40°-50°	2392.1	14.3
50°-60°	3801.0	22.7
60°-70°	4702.1	28.1
70°-80°	2922.8	17.5
80°-90°	236.2	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°	16742.0	100.0
0°-180°	16742.0	100.0

Coefficient of Utilization



REPORT NUMBER: P883250

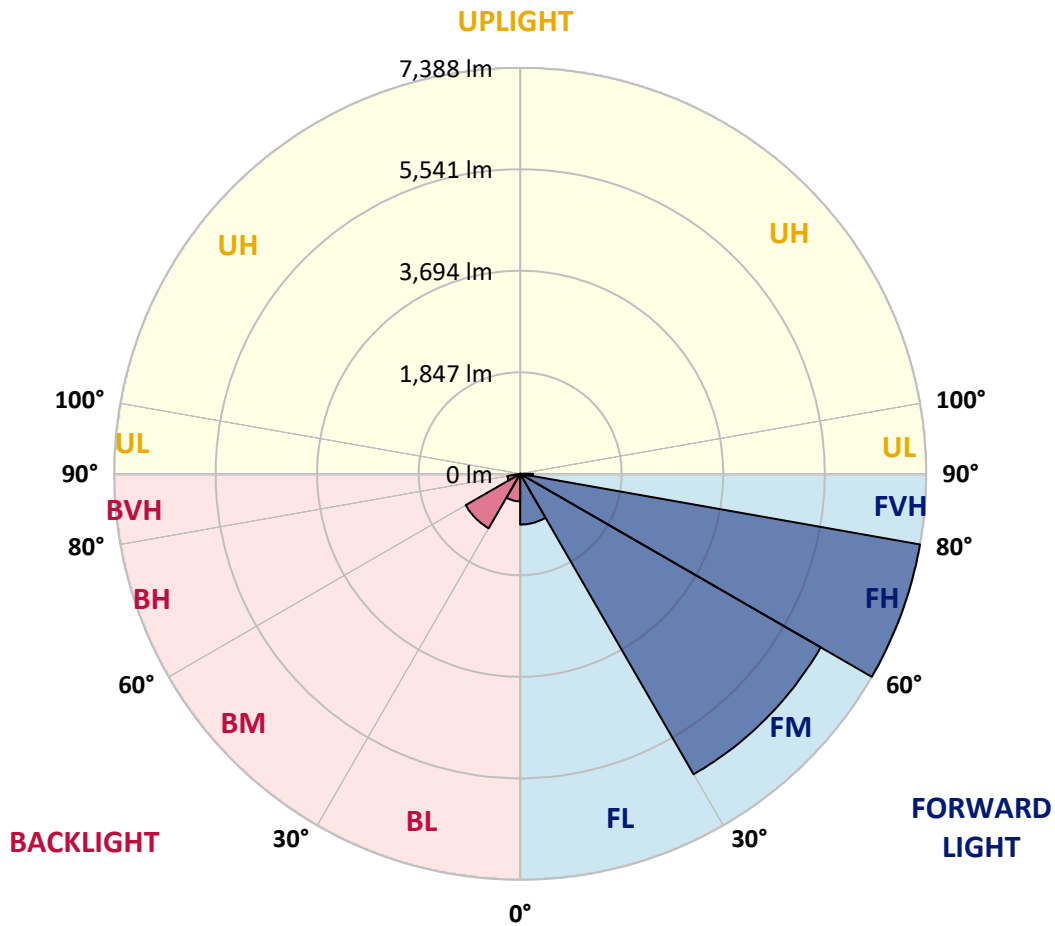
CATALOG NUMBER: NAV-SB3C-730-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	922.9	5.5			
FM (30°-60°)	6313.4	37.7			
FH (60°-80°)	7388.4	44.1			G3/7500
FVH (80°-90°)	233.0	1.4			G3/500
BL (0°-30°)	500.7	3.0	B2/1000		
BM (30°-60°)	1143.9	6.8	B2/2500		
BH (60°-80°)	236.4	1.4	B1/500		G1/500
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



REPORT NUMBER: P883250

CATALOG NUMBER: NAV-SB3C-730-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2426.5	2426.5	2426.5	2426.5	2426.5	2426.5	2426.5	2426.5	2426.5	2426.5	2426.5
2.5°	2318.5	2338.2	2341.8	2348.0	2348.0	2355.3	2367.6	2384.8	2413.0	2427.7	2437.5
5°	2137.0	2151.7	2170.1	2184.8	2213.0	2216.7	2264.5	2311.2	2376.2	2425.3	2459.6
7.5°	1954.2	1971.4	1995.9	2031.5	2068.3	2079.3	2151.7	2230.2	2333.2	2425.3	2482.9
10°	1825.4	1826.6	1848.7	1884.3	1943.1	1956.6	2045.0	2156.6	2285.4	2410.5	2505.0
12.5°	1753.0	1761.6	1771.4	1798.4	1854.8	1863.4	1957.9	2089.1	2237.6	2401.9	2530.7
15°	1753.0	1759.1	1765.3	1778.8	1824.2	1831.5	1914.9	2046.2	2213.0	2405.6	2572.5
17.5°	1771.4	1781.2	1776.3	1792.3	1840.1	1845.0	1918.6	2033.9	2211.8	2428.9	2636.2
20°	1815.6	1822.9	1813.1	1822.9	1870.8	1880.6	1956.6	2057.2	2232.7	2469.4	2716.0
22.5°	1885.5	1889.2	1865.9	1873.2	1922.3	1934.6	2022.9	2123.5	2282.9	2534.4	2822.7
25°	1973.8	1981.2	1945.6	1954.2	2000.8	2015.5	2117.3	2222.8	2362.7	2624.0	2958.9
27.5°	2075.6	2079.3	2048.6	2047.4	2107.5	2128.4	2231.4	2345.5	2469.4	2736.8	3130.6
30°	2192.2	2203.2	2173.8	2168.9	2244.9	2262.1	2363.9	2496.4	2626.4	2906.1	3374.7
32.5°	2284.2	2292.8	2275.6	2287.9	2365.1	2378.6	2524.6	2709.9	2873.0	3146.6	3707.2
35°	2416.7	2421.6	2382.3	2404.4	2492.7	2527.1	2744.2	3009.2	3183.4	3448.3	4141.4
37.5°	2896.3	2896.3	2729.5	2620.3	2704.9	2735.6	3044.8	3385.8	3566.1	3853.2	4688.6
40°	3560.0	3548.9	3304.8	3081.6	3070.5	3130.6	3472.9	3860.5	4060.5	4339.0	5304.4
42.5°	4267.8	4250.6	3918.2	3697.4	3660.6	3681.4	3967.3	4445.7	4649.3	4931.5	5966.8
45°	4895.9	4891.0	4586.8	4289.9	4223.6	4289.9	4584.3	5130.2	5276.2	5573.0	6628.0
47.5°	5422.2	5422.2	5200.1	5006.3	4971.9	5011.2	5419.7	5889.5	5876.0	6256.3	7272.1
50°	6028.2	6023.3	5812.3	5728.8	5764.4	5819.6	6381.5	6689.4	6496.8	6927.4	7847.4
52.5°	6452.6	6482.1	6409.7	6396.2	6577.7	6673.4	7357.9	7472.0	7052.5	7564.0	8278.0
55°	6788.7	6823.1	6906.5	7001.0	7350.6	7475.7	8303.8	8214.2	7517.4	8116.1	8525.8
57.5°	7264.7	7215.6	7344.4	7530.9	8096.4	8247.3	9220.1	8914.7	7891.6	8563.8	8552.8
60°	7842.5	7849.9	7871.9	8107.5	8841.1	9034.9	10123.0	9577.1	8132.0	8838.6	8253.5
62.5°	8536.8	8547.9	8593.3	8955.1	9840.8	10023.6	11084.8	10119.3	8242.4	8761.3	7480.6
65°	8489.0	8535.6	9042.2	10280.0	11360.8	11541.1	12207.2	10499.6	8075.6	8054.7	6090.7
67.5°	7733.3	7809.4	8657.1	11862.5	13652.3	13853.5	13564.0	10574.4	7355.5	6263.7	3973.4
70°	6742.1	6769.1	7788.5	13285.5	16305.7	16509.4	14778.4	9751.3	5581.6	3493.7	1780.0
72.5°	5265.1	5271.3	6467.3	13615.5	17745.9	17757.0	13825.3	7238.9	3001.8	1342.0	618.3
75°	3761.2	3724.4	4331.6	11041.8	15612.6	15737.8	10364.7	3395.6	1147.0	634.2	307.9
77.5°	2016.7	2057.2	2451.0	6548.3	10785.4	10998.9	5655.2	978.9	583.9	431.8	203.6
80°	623.2	657.5	1004.7	2998.1	6109.1	6237.9	2096.5	435.5	407.3	307.9	133.7
82.5°	196.3	203.6	468.6	1259.9	2535.7	2594.5	607.2	246.6	278.5	203.6	78.5
85°	56.4	57.7	208.5	469.8	626.9	639.1	170.5	95.7	159.5	126.4	40.5
87.5°	6.1	19.6	78.5	78.5	55.2	54.0	18.4	20.9	45.4	15.9	7.4
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: P883250
 CATALOG NUMBER: NAV-SB3C-730-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2426.5	2426.5	2426.5	2426.5	2426.5	2426.5	2426.5	2426.5	2426.5	2426.5	2426.5
2.5°	2431.4	2432.6	2416.7	2389.7	2360.2	2335.7	2305.0	2280.5	2263.3	2258.4	2267.0
5°	2448.6	2440.0	2394.6	2312.4	2214.3	2129.6	2035.1	1960.3	1911.2	1890.4	1897.8
7.5°	2474.3	2449.8	2350.4	2188.5	2000.8	1834.0	1664.7	1533.4	1450.0	1408.3	1414.4
10°	2496.4	2447.3	2276.8	2009.4	1722.3	1469.6	1241.5	1083.2	994.9	953.2	954.4
12.5°	2517.3	2446.1	2181.1	1797.2	1408.3	1099.2	886.9	808.4	783.9	775.3	772.8
15°	2556.5	2449.8	2060.9	1554.3	1095.5	830.5	753.2	752.0	756.9	754.4	753.2
17.5°	2610.5	2453.5	1924.7	1296.7	845.2	732.4	728.7	739.7	747.1	743.4	742.2
20°	2680.4	2468.2	1780.0	1041.5	726.2	707.8	716.4	726.2	732.4	726.2	725.0
22.5°	2778.5	2493.9	1621.7	836.6	688.2	693.1	700.5	711.5	717.6	709.1	707.8
25°	2898.8	2534.4	1465.9	727.5	669.8	675.9	687.0	699.2	706.6	698.0	696.8
27.5°	3054.6	2599.4	1322.4	702.9	651.4	655.1	671.0	689.4	699.2	688.2	688.2
30°	3280.3	2706.2	1198.5	714.0	640.4	631.8	653.8	679.6	690.7	680.8	679.6
32.5°	3579.6	2857.1	1122.5	731.1	635.4	604.8	625.6	658.8	677.2	671.0	671.0
35°	3972.2	3086.5	1093.0	750.8	631.8	576.6	591.3	626.9	658.8	664.9	664.9
37.5°	4448.1	3405.4	1101.6	759.3	620.7	553.3	560.6	591.3	633.0	652.6	657.5
40°	4989.1	3777.1	1150.7	750.8	608.5	533.6	534.9	558.2	595.0	624.4	634.2
42.5°	5547.3	4211.4	1241.5	718.9	597.4	516.5	512.8	528.7	553.3	574.1	582.7
45°	6078.5	4657.9	1331.0	674.7	583.9	499.3	490.7	496.8	501.7	510.3	515.2
47.5°	6542.2	4971.9	1305.2	634.2	565.5	479.7	464.9	462.5	447.8	446.5	445.3
50°	6862.3	5040.6	1159.3	593.7	538.5	457.6	434.3	419.5	393.8	381.5	382.7
52.5°	6964.2	4769.5	947.0	553.3	494.4	428.1	395.0	371.7	339.8	328.8	327.5
55°	6829.2	4238.4	756.9	504.2	433.0	388.9	352.1	321.4	295.6	282.1	282.1
57.5°	6499.2	3562.4	598.6	446.5	368.0	344.7	307.9	277.2	255.2	241.7	239.2
60°	5952.1	2828.8	473.5	377.8	314.0	296.9	258.8	239.2	219.6	203.6	200.0
62.5°	5121.6	2019.2	371.7	299.3	262.5	242.9	220.8	206.1	182.8	160.7	157.0
65°	3996.7	1235.3	287.1	219.6	211.0	201.2	187.7	174.2	146.0	123.9	120.2
67.5°	2520.9	585.2	204.9	165.6	166.8	161.9	155.8	144.8	123.9	104.3	101.8
70°	1110.2	283.4	134.9	126.4	123.9	123.9	128.8	125.1	105.5	87.1	83.4
72.5°	377.8	152.1	100.6	95.7	89.6	88.3	108.0	104.3	84.6	67.5	63.8
75°	197.5	101.8	73.6	68.7	54.0	65.0	85.9	81.0	60.1	44.2	40.5
77.5°	128.8	72.4	50.3	44.2	30.7	42.9	63.8	56.4	35.6	22.1	19.6
80°	81.0	47.8	29.4	20.9	14.7	23.3	34.3	24.5	13.5	4.9	3.7
82.5°	42.9	24.5	11.0	7.4	6.1	7.4	8.6	6.1	2.5	0.0	0.0
85°	17.2	8.6	3.7	2.5	1.2	0.0	2.5	1.2	0.0	0.0	0.0
87.5°	6.1	1.2	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)