

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: P883260

Luminaire Tested: **NAV-SB3C-735-U-T4FT-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883260  
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-735-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

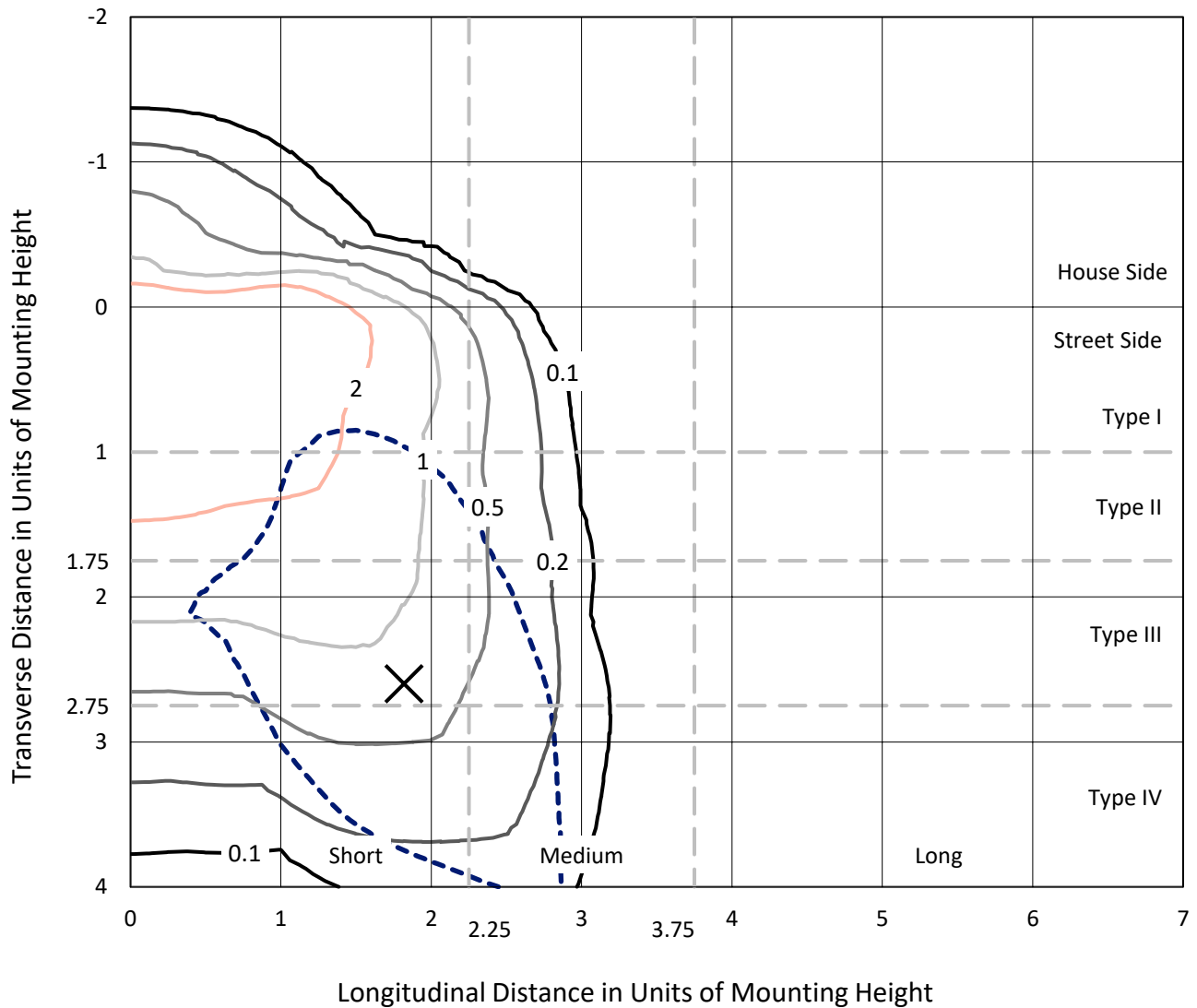
Lumens per Lamp: N/A  
Luminaire Lumens: 17008 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 149.1  
Input Voltage (V): 120.0  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

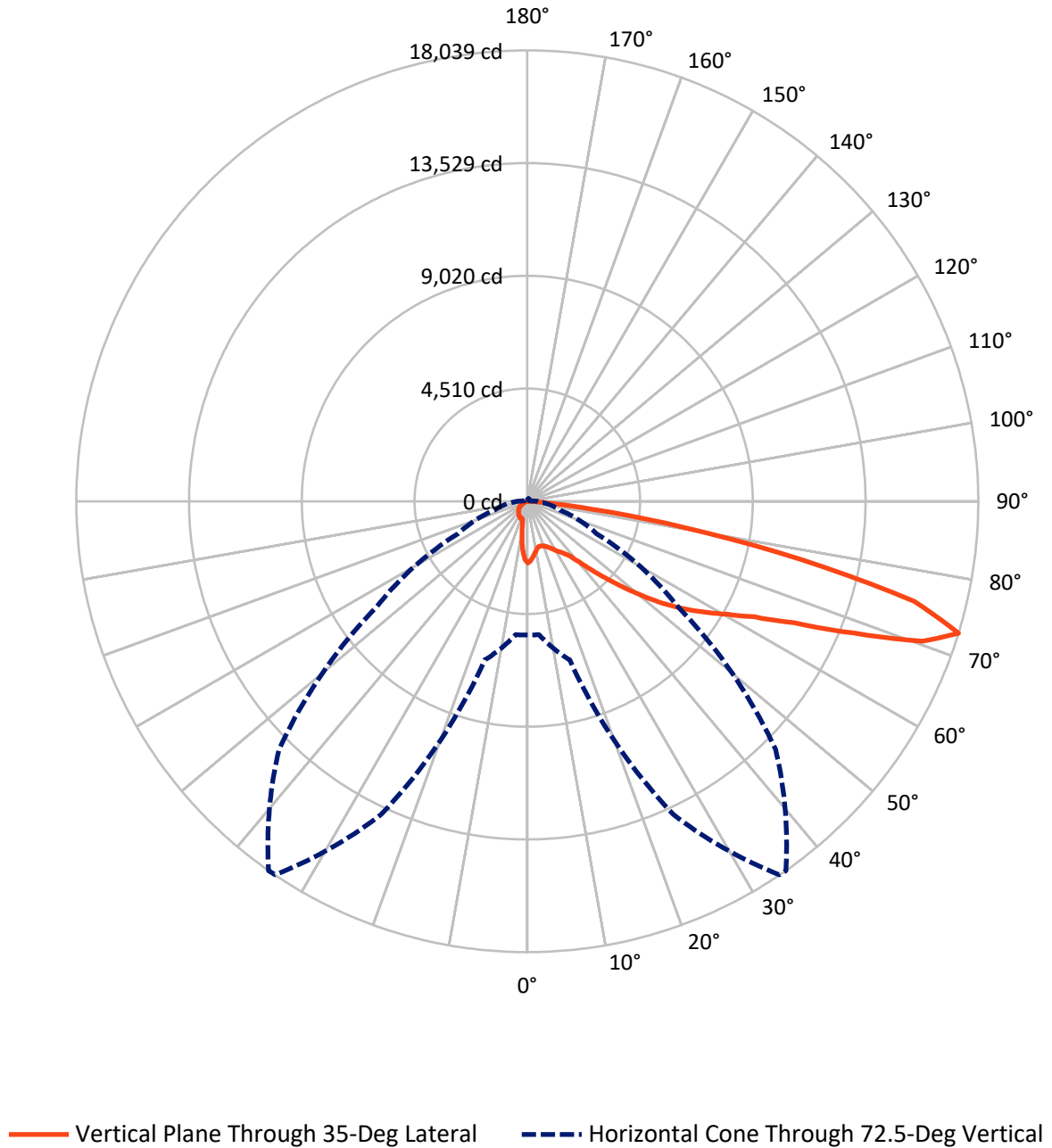
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1914.2	0.0	1914.2
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	15093.8	0.0	15093.8
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	17008.0	0.0	17008.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.6	1.2
10°-20°	473.9	2.8
20°-30°	769.8	4.5
30°-40°	1284.4	7.6
40°-50°	2430.1	14.3
50°-60°	3861.4	22.7
60°-70°	4776.8	28.1
70°-80°	2969.3	17.5
80°-90°	240.0	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°	17008.0	100.0
0°-180°	17008.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P883260

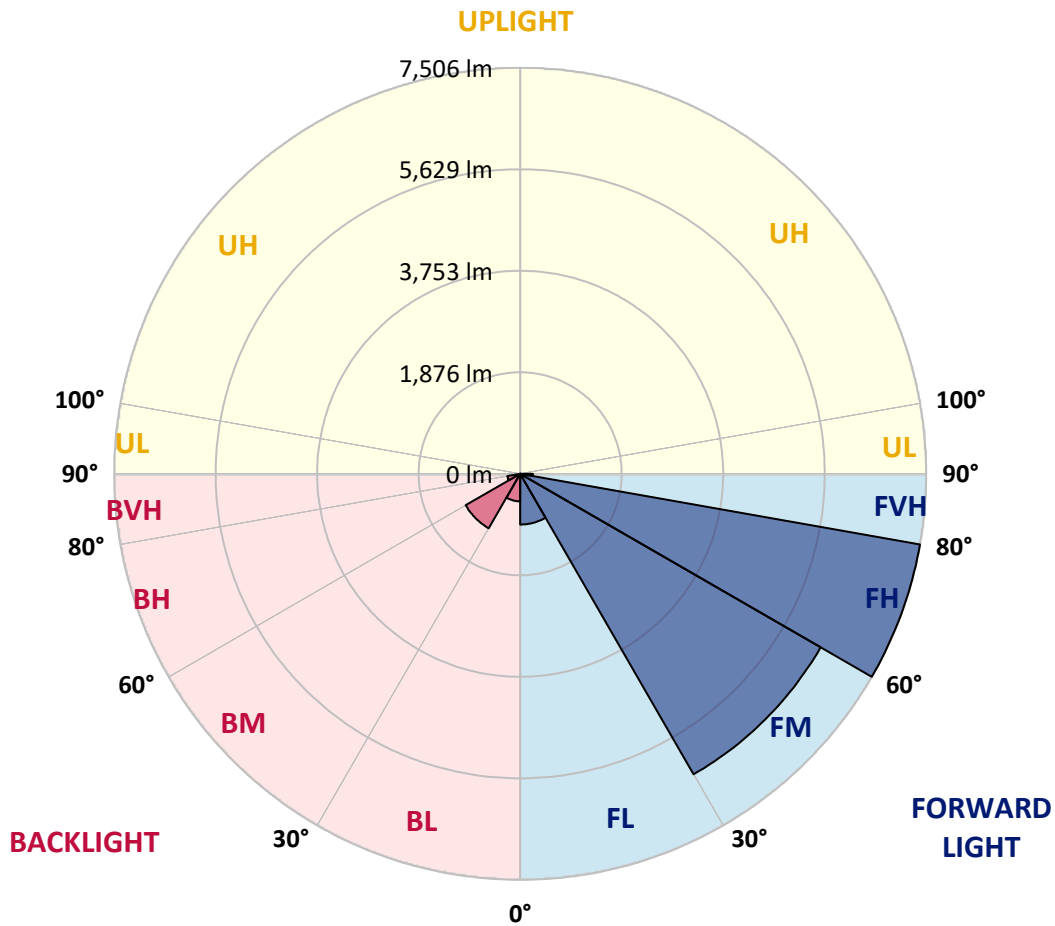
CATALOG NUMBER: NAV-SB3C-735-U-T4FT-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	937.6	5.5			
FM (30°-60°)	6413.7	37.7			
FH (60°-80°)	7505.8	44.1			G4/12000
FVH (80°-90°)	236.7	1.4			G3/500
BL (0°-30°)	508.6	3.0	B2/1000		
BM (30°-60°)	1162.1	6.8	B2/2500		
BH (60°-80°)	240.2	1.4	B1/500		G1/500
BVH (80°-90°)	3.3	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-G4**

Type IV Short



REPORT NUMBER: P883260

CATALOG NUMBER: NAV-SB3C-735-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2465.0	2465.0	2465.0	2465.0	2465.0	2465.0	2465.0	2465.0	2465.0	2465.0	2465.0
2.5°	2355.4	2375.3	2379.0	2385.3	2385.3	2392.7	2405.2	2422.7	2451.3	2466.3	2476.2
5°	2170.9	2185.9	2204.6	2219.5	2248.2	2251.9	2300.5	2347.9	2413.9	2463.8	2498.7
7.5°	1985.2	2002.7	2027.6	2063.7	2101.1	2112.3	2185.9	2265.6	2370.3	2463.8	2522.4
10°	1854.4	1855.6	1878.1	1914.2	1974.0	1987.7	2077.5	2190.9	2321.7	2448.8	2544.8
12.5°	1780.9	1789.6	1799.5	1827.0	1884.3	1893.0	1989.0	2122.3	2273.1	2440.1	2571.0
15°	1780.9	1787.1	1793.3	1807.0	1853.1	1860.6	1945.4	2078.7	2248.2	2443.8	2613.3
17.5°	1799.5	1809.5	1804.5	1820.7	1869.3	1874.3	1949.1	2066.2	2246.9	2467.5	2678.1
20°	1844.4	1851.9	1841.9	1851.9	1900.5	1910.5	1987.7	2089.9	2268.1	2508.6	2759.1
22.5°	1915.4	1919.2	1895.5	1903.0	1952.8	1965.3	2055.0	2157.2	2319.2	2574.7	2867.6
25°	2005.2	2012.7	1976.5	1985.2	2032.6	2047.5	2151.0	2258.2	2400.2	2665.7	3005.9
27.5°	2108.6	2112.3	2081.2	2079.9	2141.0	2162.2	2266.9	2382.8	2508.6	2780.3	3180.4
30°	2227.0	2238.2	2208.3	2203.3	2280.6	2298.0	2401.5	2536.1	2668.2	2952.3	3428.4
32.5°	2320.5	2329.2	2311.7	2324.2	2402.7	2416.4	2564.7	2752.9	2918.7	3196.6	3766.1
35°	2455.1	2460.0	2420.2	2442.6	2532.3	2567.2	2787.8	3057.0	3233.9	3503.1	4207.2
37.5°	2942.3	2942.3	2772.8	2661.9	2747.9	2779.1	3093.1	3439.6	3622.8	3914.4	4763.1
40°	3616.5	3605.3	3357.3	3130.5	3119.3	3180.4	3528.1	3921.9	4125.0	4407.9	5388.7
42.5°	4335.6	4318.2	3980.4	3756.1	3718.7	3739.9	4030.3	4516.3	4723.2	5009.8	6061.6
45°	4973.7	4968.7	4659.6	4358.0	4290.7	4358.0	4657.1	5211.7	5360.0	5661.6	6733.3
47.5°	5508.3	5508.3	5282.7	5085.8	5050.9	5090.8	5505.8	5983.1	5969.4	6355.7	7387.6
50°	6123.9	6119.0	5904.6	5819.9	5856.0	5912.1	6482.9	6795.7	6600.0	7037.4	7972.1
52.5°	6555.1	6585.0	6511.5	6497.8	6682.2	6779.5	7474.8	7590.7	7164.5	7684.2	8409.5
55°	6896.6	6931.5	7016.2	7112.2	7467.4	7594.5	8435.7	8344.7	7636.9	8245.0	8661.3
57.5°	7380.1	7330.3	7461.1	7650.6	8225.1	8378.4	9366.6	9056.3	8017.0	8699.9	8688.7
60°	7967.1	7974.6	7997.0	8236.3	8981.5	9178.4	10283.8	9729.3	8261.2	8979.0	8384.6
62.5°	8672.5	8683.7	8729.8	9097.4	9997.2	10182.9	11260.9	10280.1	8373.4	8900.5	7599.5
65°	8623.9	8671.2	9185.9	10443.4	11541.3	11724.5	12401.2	10666.4	8203.9	8182.7	6187.5
67.5°	7856.2	7933.5	8794.6	12051.0	13869.2	14073.6	13779.5	10742.4	7472.4	6363.2	4036.5
70°	6849.2	6876.7	7912.3	13496.6	16564.8	16771.7	15013.3	9906.2	5670.3	3549.2	1808.3
72.5°	5348.8	5355.0	6570.1	13831.8	18027.9	18039.1	14044.9	7354.0	3049.5	1363.4	628.1
75°	3820.9	3783.5	4400.4	11217.3	15860.7	15987.8	10529.3	3449.5	1165.2	644.3	312.8
77.5°	2048.8	2089.9	2490.0	6652.3	10956.8	11173.6	5745.1	994.5	593.2	438.7	206.9
80°	633.1	668.0	1020.7	3045.8	6206.2	6337.0	2129.8	442.4	413.7	312.8	135.8
82.5°	199.4	206.9	476.1	1279.9	2575.9	2635.8	616.9	250.5	282.9	206.9	79.8
85°	57.3	58.6	211.9	477.3	636.8	649.3	173.2	97.2	162.0	128.4	41.1
87.5°	6.2	19.9	79.8	79.8	56.1	54.8	18.7	21.2	46.1	16.2	7.5
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: P883260

CATALOG NUMBER: NAV-SB3C-735-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2465.0	2465.0	2465.0	2465.0	2465.0	2465.0	2465.0	2465.0	2465.0	2465.0	2465.0
2.5°	2470.0	2471.3	2455.1	2427.6	2397.7	2372.8	2341.7	2316.7	2299.3	2294.3	2303.0
5°	2487.5	2478.7	2432.6	2349.1	2249.4	2163.4	2067.5	1991.5	1941.6	1920.4	1927.9
7.5°	2513.6	2488.7	2387.8	2223.3	2032.6	1863.1	1691.1	1557.8	1473.0	1430.7	1436.9
10°	2536.1	2486.2	2313.0	2041.3	1749.7	1493.0	1261.2	1100.4	1010.7	968.3	969.6
12.5°	2557.2	2485.0	2215.8	1825.7	1430.7	1116.6	901.0	821.3	796.3	787.6	785.1
15°	2597.1	2488.7	2093.7	1579.0	1112.9	843.7	765.2	763.9	768.9	766.4	765.2
17.5°	2652.0	2492.4	1955.3	1317.3	858.6	744.0	740.3	751.5	758.9	755.2	754.0
20°	2723.0	2507.4	1808.3	1058.0	737.8	719.1	727.8	737.8	744.0	737.8	736.5
22.5°	2822.7	2533.6	1647.5	849.9	699.1	704.1	711.6	722.8	729.0	720.3	719.1
25°	2944.8	2574.7	1489.2	739.0	680.4	686.7	697.9	710.3	717.8	709.1	707.9
27.5°	3103.1	2640.7	1343.4	714.1	661.7	665.5	681.7	700.4	710.3	699.1	699.1
30°	3332.4	2749.2	1217.6	725.3	650.5	641.8	664.2	690.4	701.6	691.7	690.4
32.5°	3636.5	2902.5	1140.3	742.7	645.5	614.4	635.6	669.2	687.9	681.7	681.7
35°	4035.3	3135.5	1110.4	762.7	641.8	585.7	600.7	636.8	669.2	675.5	675.5
37.5°	4518.8	3459.5	1119.1	771.4	630.6	562.0	569.5	600.7	643.1	663.0	668.0
40°	5068.4	3837.1	1169.0	762.7	618.1	542.1	543.4	567.0	604.4	634.3	644.3
42.5°	5635.4	4278.3	1261.2	730.3	606.9	524.7	520.9	537.1	562.0	583.2	592.0
45°	6175.0	4731.9	1352.2	685.4	593.2	507.2	498.5	504.7	509.7	518.4	523.4
47.5°	6646.1	5050.9	1326.0	644.3	574.5	487.3	472.3	469.8	454.9	453.6	452.4
50°	6971.4	5120.7	1177.7	603.2	547.1	464.8	441.2	426.2	400.0	387.6	388.8
52.5°	7074.8	4845.3	962.1	562.0	502.2	434.9	401.3	377.6	345.2	334.0	332.7
55°	6937.7	4305.7	768.9	512.2	439.9	395.1	357.7	326.5	300.3	286.6	286.6
57.5°	6602.5	3619.0	608.2	453.6	373.9	350.2	312.8	281.6	259.2	245.5	243.0
60°	6046.7	2873.8	481.0	383.8	319.0	301.6	263.0	243.0	223.1	206.9	203.1
62.5°	5203.0	2051.3	377.6	304.1	266.7	246.8	224.3	209.4	185.7	163.3	159.5
65°	4060.2	1254.9	291.6	223.1	214.4	204.4	190.7	177.0	148.3	125.9	122.1
67.5°	2561.0	594.4	208.1	168.2	169.5	164.5	158.3	147.1	125.9	105.9	103.4
70°	1127.8	287.9	137.1	128.4	125.9	125.9	130.9	127.1	107.2	88.5	84.7
72.5°	383.8	154.5	102.2	97.2	91.0	89.7	109.7	105.9	86.0	68.5	64.8
75°	200.6	103.4	74.8	69.8	54.8	66.0	87.2	82.3	61.1	44.9	41.1
77.5°	130.9	73.5	51.1	44.9	31.2	43.6	64.8	57.3	36.1	22.4	19.9
80°	82.3	48.6	29.9	21.2	15.0	23.7	34.9	24.9	13.7	5.0	3.7
82.5°	43.6	24.9	11.2	7.5	6.2	7.5	8.7	6.2	2.5	0.0	0.0
85°	17.4	8.7	3.7	2.5	1.2	0.0	2.5	1.2	0.0	0.0	0.0
87.5°	6.2	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)