

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: P885020

Luminaire Tested: **NAV-SB6A-835-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885020
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-SB6A-835-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 350mA 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: 17394 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

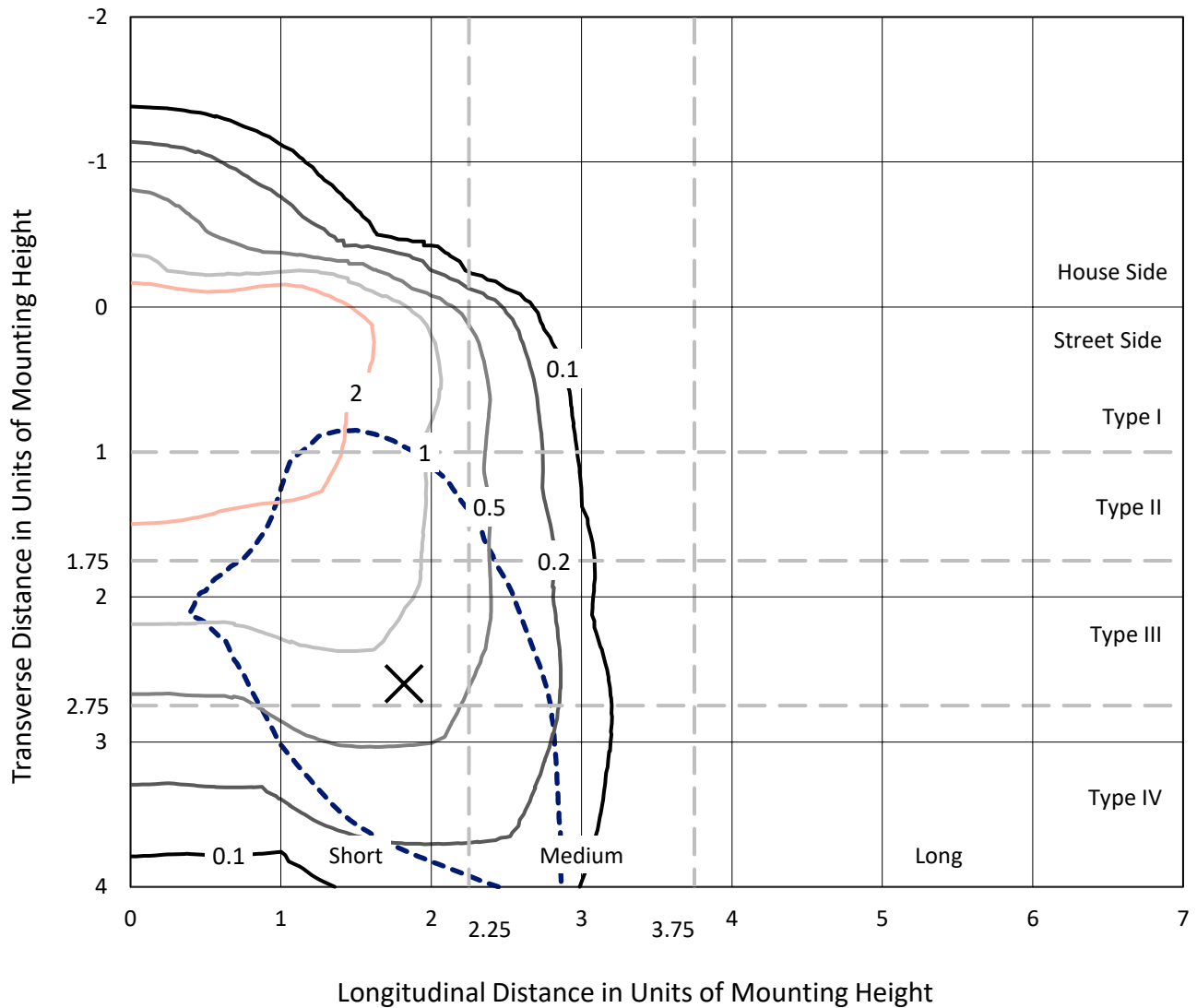
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

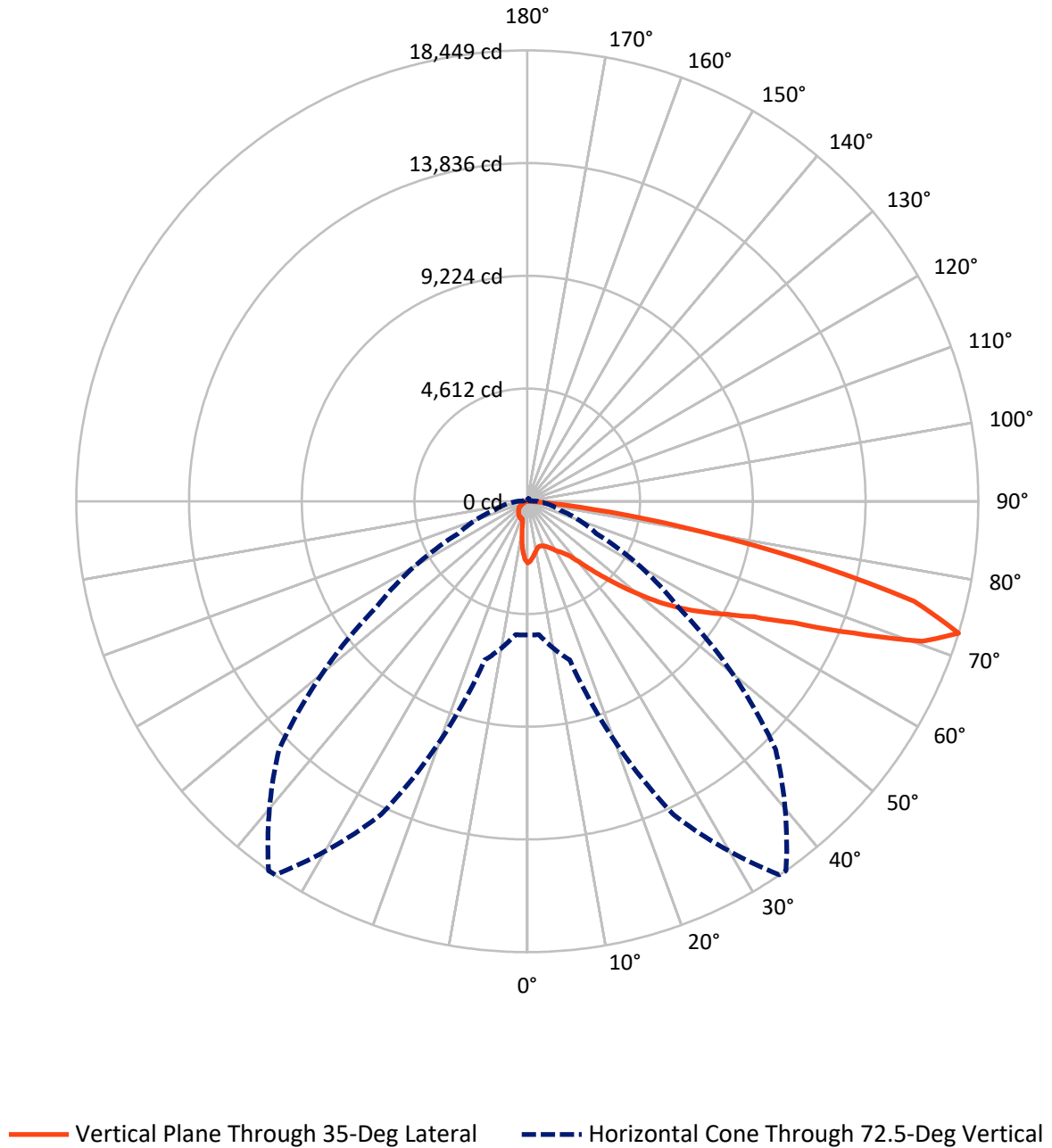
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1957.6	0.0	1957.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	15436.4	0.0	15436.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	17394.0	0.0	17394.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.2	1.2
10°-20°	484.6	2.8
20°-30°	787.3	4.5
30°-40°	1313.5	7.6
40°-50°	2485.2	14.3
50°-60°	3949.0	22.7
60°-70°	4885.2	28.1
70°-80°	3036.7	17.5
80°-90°	245.4	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°	17394.0	100.0
0°-180°	17394.0	100.0

Coefficient of Utilization



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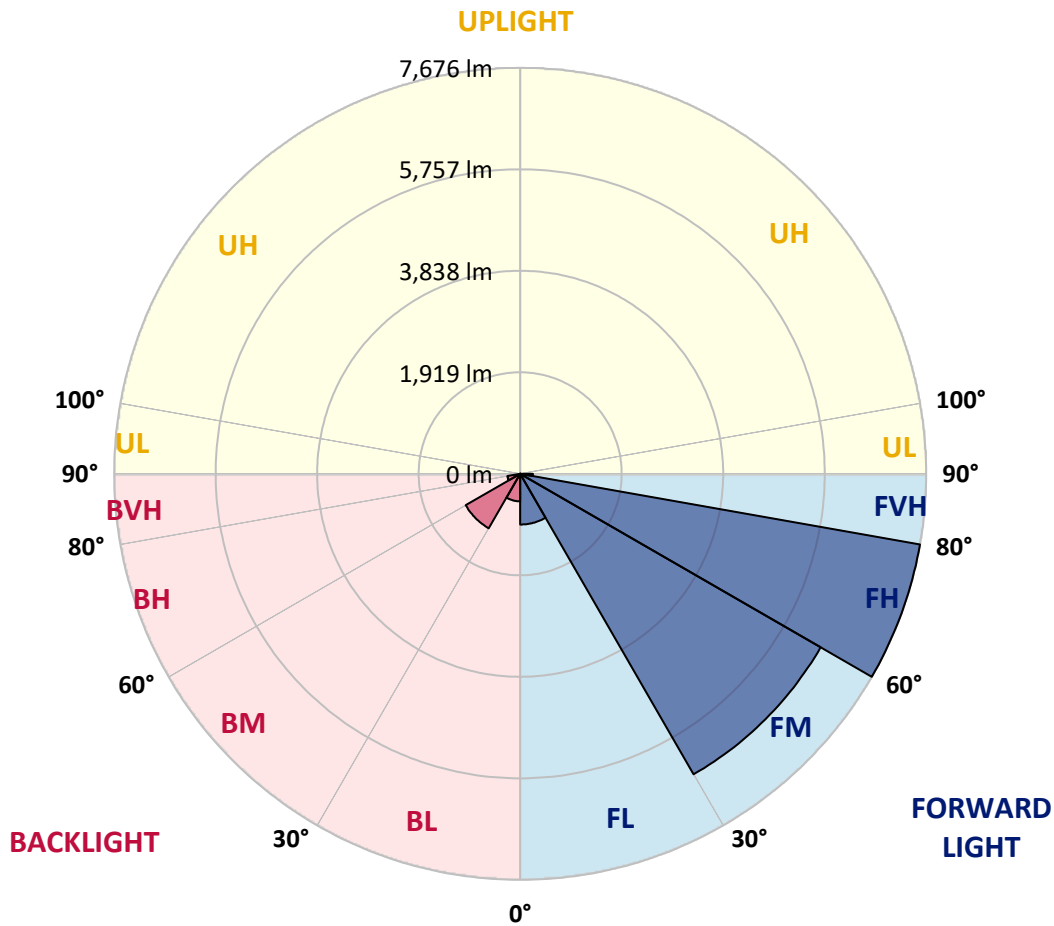
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	958.9	5.5			
FM (30°-60°)	6559.3	37.7			
FH (60°-80°)	7676.2	44.1			G4/12000
FVH (80°-90°)	242.1	1.4			G3/500
BL (0°-30°)	520.2	3.0	B2/1000		
BM (30°-60°)	1188.4	6.8	B2/2500		
BH (60°-80°)	245.6	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2521.0	2521.0	2521.0	2521.0	2521.0	2521.0	2521.0	2521.0	2521.0	2521.0	2521.0
2.5°	2408.8	2429.2	2433.0	2439.4	2439.4	2447.1	2459.8	2477.6	2507.0	2522.2	2532.4
5°	2220.2	2235.5	2254.6	2269.9	2299.2	2303.0	2352.7	2401.2	2468.7	2519.7	2555.4
7.5°	2030.3	2048.1	2073.6	2110.6	2148.8	2160.3	2235.5	2317.1	2424.1	2519.7	2579.6
10°	1896.5	1897.7	1920.7	1957.6	2018.8	2032.8	2124.6	2240.6	2374.4	2504.4	2602.5
12.5°	1821.3	1830.2	1840.4	1868.4	1927.1	1936.0	2034.1	2170.5	2324.7	2495.5	2629.3
15°	1821.3	1827.6	1834.0	1848.0	1895.2	1902.8	1989.5	2125.9	2299.2	2499.3	2672.6
17.5°	1840.4	1850.6	1845.5	1862.1	1911.8	1916.9	1993.3	2113.1	2297.9	2523.5	2738.9
20°	1886.3	1893.9	1883.7	1893.9	1943.6	1953.8	2032.8	2137.3	2319.6	2565.6	2821.8
22.5°	1958.9	1962.7	1938.5	1946.2	1997.2	2009.9	2101.7	2206.2	2371.9	2633.1	2932.6
25°	2050.7	2058.3	2021.4	2030.3	2078.7	2094.0	2199.8	2309.4	2454.7	2726.2	3074.1
27.5°	2156.5	2160.3	2128.4	2127.2	2189.6	2211.3	2318.3	2436.9	2565.6	2843.4	3252.5
30°	2277.5	2289.0	2258.4	2253.3	2332.3	2350.2	2456.0	2593.6	2728.7	3019.3	3506.2
32.5°	2373.1	2382.1	2364.2	2377.0	2457.2	2471.3	2622.9	2815.4	2984.9	3269.1	3851.6
35°	2510.8	2515.9	2475.1	2498.0	2589.8	2625.5	2851.1	3126.4	3307.3	3582.6	4302.7
37.5°	3009.1	3009.1	2835.8	2722.3	2810.3	2842.1	3163.3	3517.6	3705.0	4003.2	4871.2
40°	3698.6	3687.1	3433.5	3201.6	3190.1	3252.5	3608.1	4010.9	4218.6	4507.9	5511.0
42.5°	4434.0	4416.2	4070.8	3841.4	3803.1	3824.8	4121.8	4618.8	4830.4	5123.5	6199.2
45°	5086.6	5081.5	4765.4	4456.9	4388.1	4456.9	4762.8	5330.0	5481.7	5790.1	6886.2
47.5°	5633.3	5633.3	5402.6	5201.3	5165.6	5206.4	5630.8	6118.9	6104.9	6500.0	7555.3
50°	6262.9	6257.8	6038.6	5951.9	5988.9	6046.3	6630.0	6949.9	6749.8	7197.1	8153.0
52.5°	6703.9	6734.5	6659.3	6645.3	6833.9	6933.3	7644.5	7763.0	7327.1	7858.6	8600.4
55°	7053.1	7088.8	7175.5	7273.6	7636.8	7766.8	8627.1	8534.1	7810.2	8432.1	8857.8
57.5°	7547.6	7496.6	7630.5	7824.2	8411.7	8568.5	9579.2	9261.8	8198.9	8897.3	8885.9
60°	8147.9	8155.6	8178.5	8423.2	9185.4	9386.7	10517.2	9950.1	8448.7	9182.8	8574.9
62.5°	8869.3	8880.8	8927.9	9303.9	10224.1	10414.0	11516.4	10513.4	8563.4	9102.5	7771.9
65°	8819.6	8868.0	9394.4	10680.4	11803.2	11990.6	12682.6	10908.5	8390.1	8368.4	6327.9
67.5°	8034.5	8113.5	8994.2	12324.5	14184.0	14393.0	14092.2	10986.2	7641.9	6507.6	4128.1
70°	7004.7	7032.7	8091.8	13802.9	16940.7	17152.3	15354.0	10131.1	5799.0	3629.8	1849.3
72.5°	5470.2	5476.6	6719.2	14145.7	18437.0	18448.5	14363.7	7520.9	3118.7	1394.3	642.4
75°	3907.6	3869.4	4500.3	11471.8	16220.6	16350.6	10768.3	3527.8	1191.7	658.9	319.9
77.5°	2095.3	2137.3	2546.5	6803.3	11205.5	11427.2	5875.5	1017.1	606.7	448.6	211.6
80°	647.4	683.1	1043.8	3114.9	6347.0	6480.9	2178.1	452.4	423.1	319.9	138.9
82.5°	203.9	211.6	486.9	1308.9	2634.4	2695.6	630.9	256.2	289.3	211.6	81.6
85°	58.6	59.9	216.7	488.1	651.3	664.0	177.2	99.4	165.7	131.3	42.1
87.5°	6.4	20.4	81.6	81.6	57.4	56.1	19.1	21.7	47.2	16.6	7.6
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°	2521.0	2521.0	2521.0	2521.0	2521.0	2521.0	2521.0	2521.0	2521.0	2521.0	2521.0
2.5°	2526.1	2527.3	2510.8	2482.7	2452.2	2426.7	2394.8	2369.3	2351.5	2346.4	2355.3
5°	2543.9	2535.0	2487.8	2402.4	2300.5	2212.5	2114.4	2036.7	1985.7	1964.0	1971.7
7.5°	2570.7	2545.2	2442.0	2273.7	2078.7	1905.4	1729.5	1593.1	1506.5	1463.1	1469.5
10°	2593.6	2542.6	2365.5	2087.6	1789.4	1526.9	1289.8	1125.4	1033.6	990.3	991.6
12.5°	2615.3	2541.4	2266.1	1867.2	1463.1	1142.0	921.5	839.9	814.4	805.5	802.9
15°	2656.1	2545.2	2141.2	1614.8	1138.1	862.8	782.5	781.3	786.4	783.8	782.5
17.5°	2712.1	2549.0	1999.7	1347.2	878.1	760.9	757.1	768.5	776.2	772.4	771.1
20°	2784.8	2564.3	1849.3	1082.1	754.5	735.4	744.3	754.5	760.9	754.5	753.2
22.5°	2886.8	2591.1	1684.9	869.2	715.0	720.1	727.7	739.2	745.6	736.7	735.4
25°	3011.7	2633.1	1523.0	755.8	695.9	702.3	713.7	726.5	734.1	725.2	723.9
27.5°	3173.5	2700.7	1373.9	730.3	676.8	680.6	697.2	716.3	726.5	715.0	715.0
30°	3408.0	2811.6	1245.2	741.8	665.3	656.4	679.3	706.1	717.5	707.4	706.1
32.5°	3719.0	2968.3	1166.2	759.6	660.2	628.3	650.0	684.4	703.5	697.2	697.2
35°	4126.9	3206.7	1135.6	780.0	656.4	599.0	614.3	651.3	684.4	690.8	690.8
37.5°	4621.4	3538.0	1144.5	788.9	644.9	574.8	582.4	614.3	657.6	678.0	683.1
40°	5183.4	3924.2	1195.5	780.0	632.2	554.4	555.7	579.9	618.1	648.7	658.9
42.5°	5763.3	4375.4	1289.8	746.9	620.7	536.6	532.7	549.3	574.8	596.5	605.4
45°	6315.2	4839.3	1382.8	701.0	606.7	518.7	509.8	516.2	521.3	530.2	535.3
47.5°	6796.9	5165.6	1356.1	658.9	587.5	498.3	483.0	480.5	465.2	463.9	462.6
50°	7129.6	5236.9	1204.4	616.9	559.5	475.4	451.2	435.9	409.1	396.4	397.6
52.5°	7235.4	4955.3	983.9	574.8	513.6	444.8	410.4	386.2	353.0	341.6	340.3
55°	7095.2	4403.4	786.4	523.8	449.9	404.0	365.8	333.9	307.2	293.1	293.1
57.5°	6752.3	3701.2	622.0	463.9	382.4	358.1	319.9	288.0	265.1	251.1	248.5
60°	6183.9	2939.0	492.0	392.5	326.3	308.4	268.9	248.5	228.1	211.6	207.7
62.5°	5321.1	2097.8	386.2	311.0	272.7	252.4	229.4	214.1	189.9	167.0	163.1
65°	4152.3	1283.4	298.2	228.1	219.2	209.0	195.0	181.0	151.7	128.7	124.9
67.5°	2619.1	607.9	212.8	172.1	173.3	168.2	161.9	150.4	128.7	108.3	105.8
70°	1153.4	294.4	140.2	131.3	128.7	128.7	133.8	130.0	109.6	90.5	86.7
72.5°	392.5	158.0	104.5	99.4	93.0	91.8	112.2	108.3	87.9	70.1	66.3
75°	205.2	105.8	76.5	71.4	56.1	67.5	89.2	84.1	62.5	45.9	42.1
77.5°	133.8	75.2	52.3	45.9	31.9	44.6	66.3	58.6	37.0	22.9	20.4
80°	84.1	49.7	30.6	21.7	15.3	24.2	35.7	25.5	14.0	5.1	3.8
82.5°	44.6	25.5	11.5	7.6	6.4	7.6	8.9	6.4	2.5	0.0	0.0
85°	17.8	8.9	3.8	2.5	1.3	0.0	2.5	1.3	0.0	0.0	0.0
87.5°	6.4	1.3	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)