

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: P964754

Luminaire Tested: **NAV-SB3C-835-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-835-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18087.1 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 149.1
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



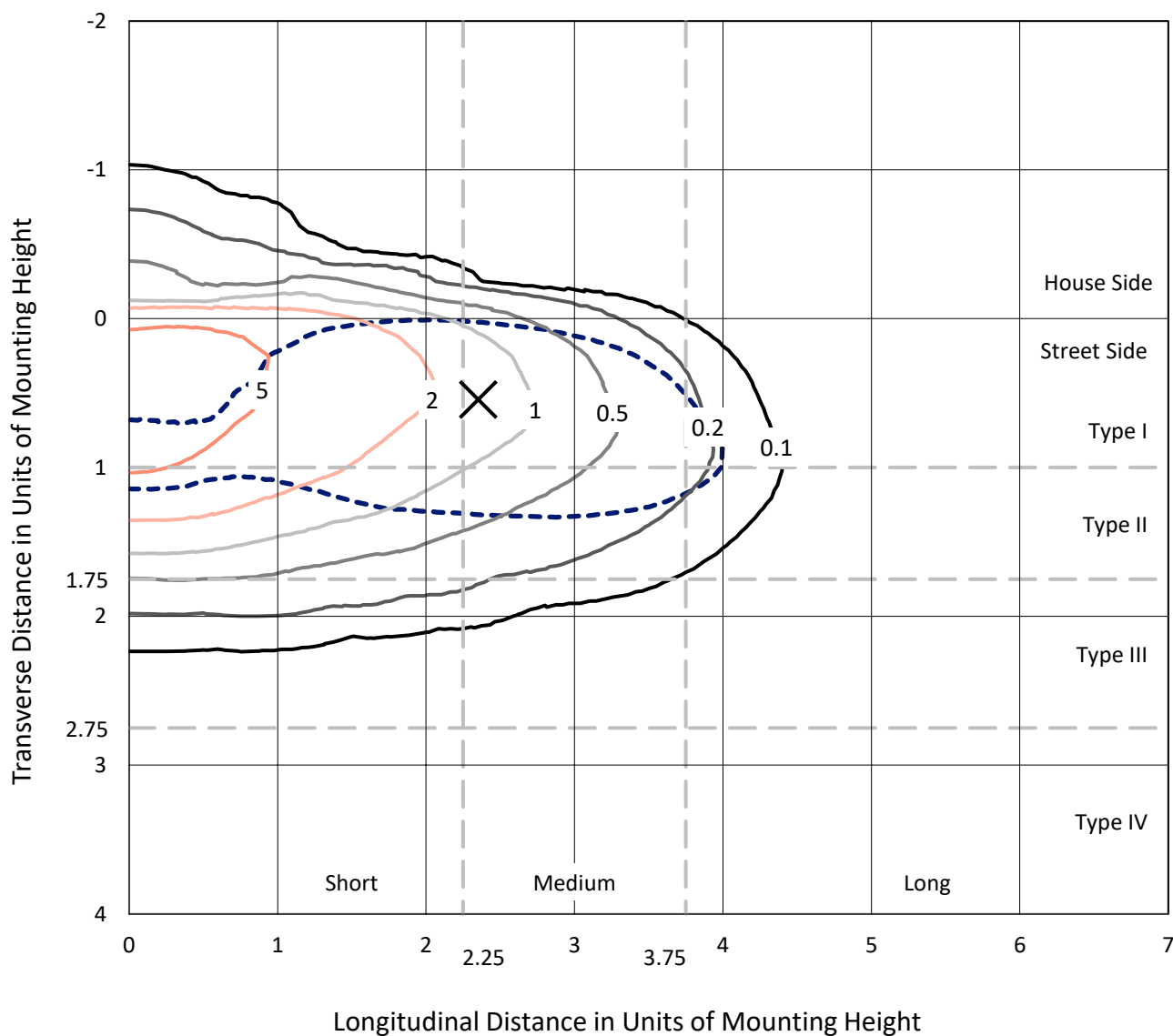
REPORT NUMBER: P964754

CATALOG NUMBER: NAV-SB3C-835-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

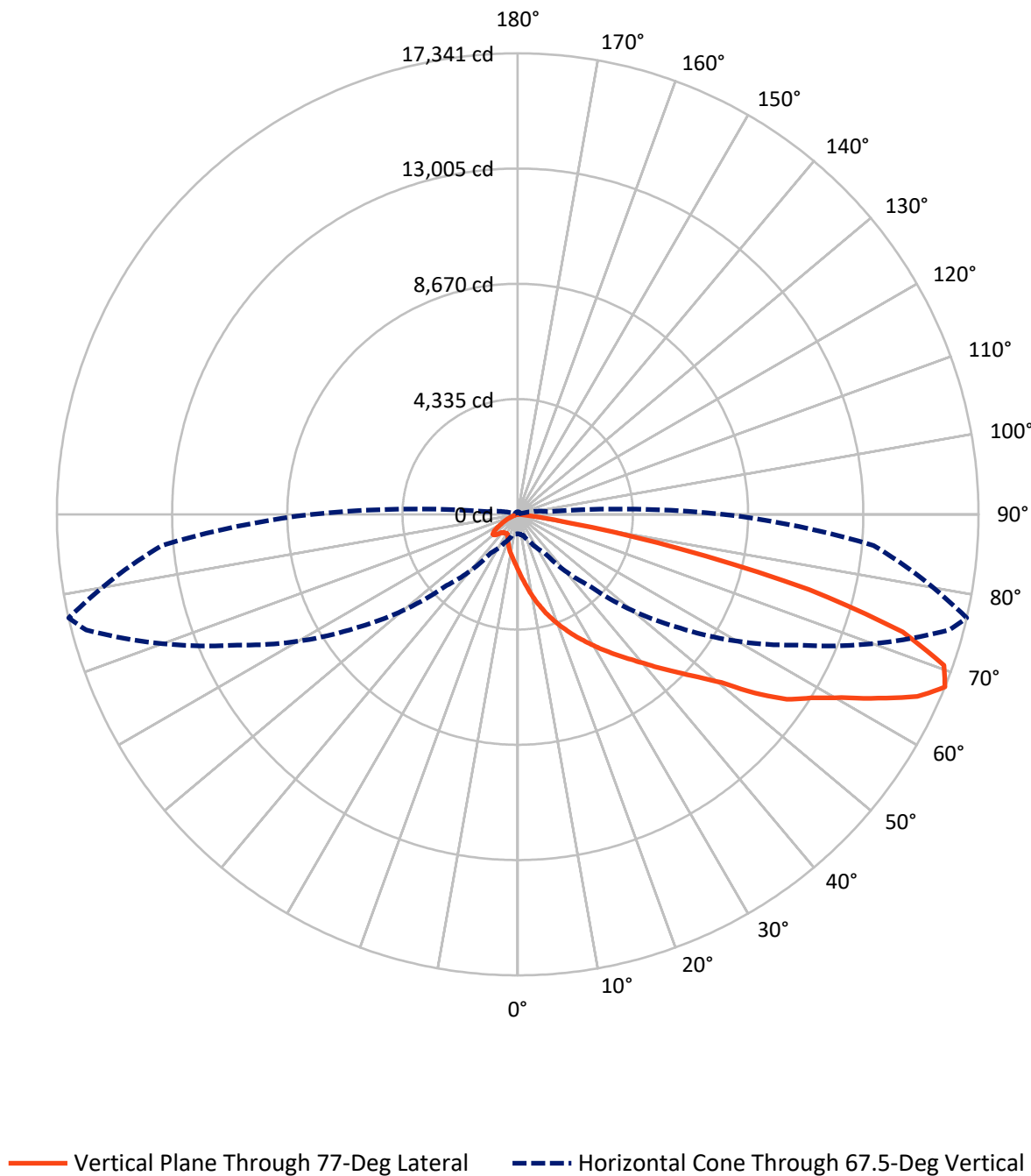
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
Type II - Medium - N/A

REPORT NUMBER: P964754
CATALOG NUMBER: NAV-SB3C-835-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P964754

CATALOG NUMBER: NAV-SB3C-835-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1330.7	0.0	1330.7
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	16756.5	0.0	16756.5
	% Fixture	92.6	0.0	92.6
Total	Lumens	18087.1	0.0	18087.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.9	1.2
10°-20°	745.5	4.1
20°-30°	1438.6	8.0
30°-40°	2497.5	13.8
40°-50°	3626.2	20.0
50°-60°	4164.2	23.0
60°-70°	3615.3	20.0
70°-80°	1702.8	9.4
80°-90°	84.2	0.5
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°	18087.1	100.0
0°-180°	18087.1	100.0

Coefficient of Utilization



REPORT NUMBER: P964754

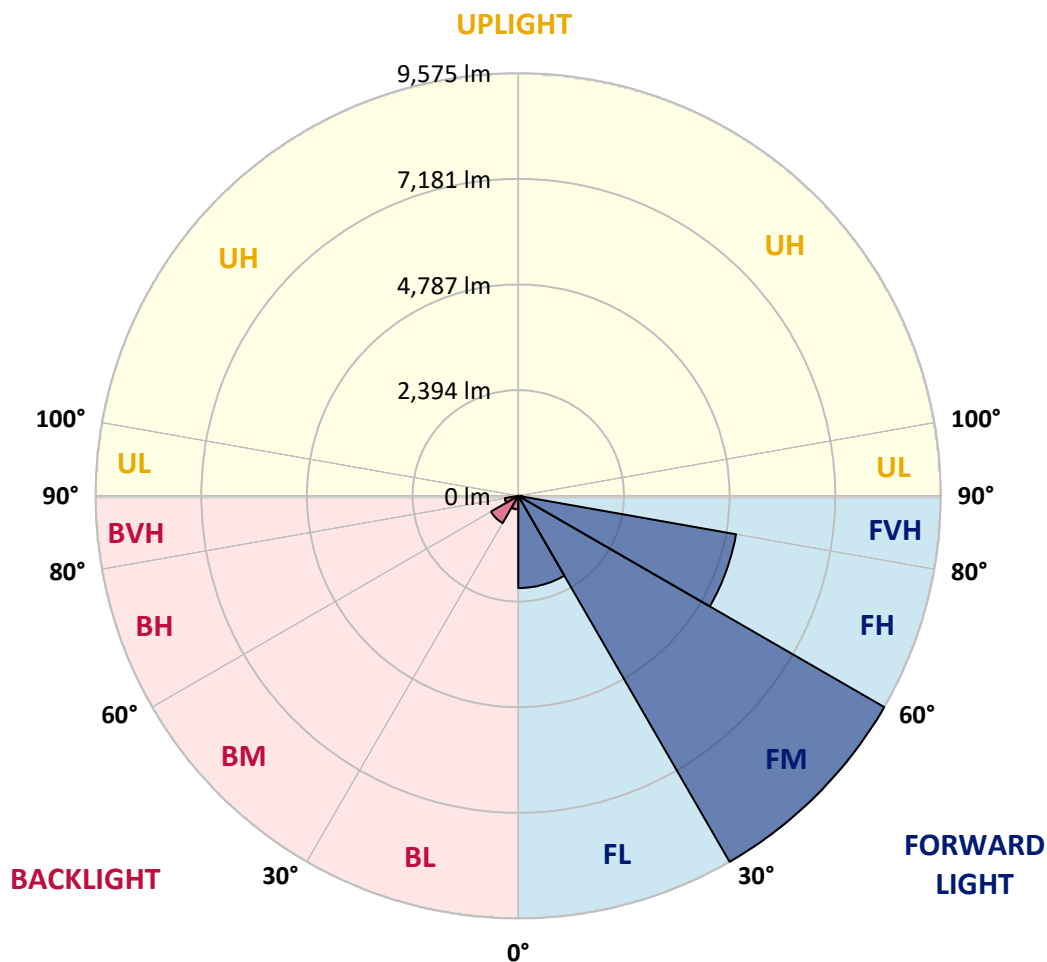
CATALOG NUMBER: NAV-SB3C-835-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2088.9	11.5			
FM	(30°-60°)	9574.8	52.9			
FH	(60°-80°)	5010.1	27.7			G3/7500
FVH	(80°-90°)	82.7	0.5			G1/100
BL	(0°-30°)	308.1	1.7	B1/500		
BM	(30°-60°)	713.0	3.9	B1/1000		
BH	(60°-80°)	308.1	1.7	B1/500		G1/500
BVH	(80°-90°)	1.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium



REPORT NUMBER: P964754

CATALOG NUMBER: NAV-SB3C-835-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2085.7	2085.7	2085.7	2085.7	2085.7	2085.7	2085.7	2085.7	2085.7	2085.7	2085.7
2.5°	2887.6	2905.7	2879.8	2830.3	2756.2	2707.9	2590.0	2478.9	2355.2	2316.0	2192.4
5°	3520.0	3535.7	3506.5	3452.6	3353.8	3259.4	3104.4	2871.9	2630.5	2553.0	2333.9
7.5°	3988.4	3997.3	3986.1	3936.7	3842.3	3735.6	3562.7	3287.5	2929.2	2843.9	2508.1
10°	4325.3	4354.5	4351.1	4332.1	4269.1	4182.6	3998.4	3685.1	3263.9	3153.8	2704.6
12.5°	4548.8	4581.3	4600.5	4643.1	4639.8	4584.7	4423.0	4091.7	3597.4	3468.3	2925.9
15°	4613.9	4648.8	4721.8	4820.6	4908.2	4936.3	4822.8	4490.4	3964.8	3799.7	3152.7
17.5°	4576.9	4630.8	4718.4	4874.5	5066.6	5193.5	5181.2	4875.6	4298.3	4109.6	3375.1
20°	4658.9	4710.6	4779.1	4910.5	5134.0	5364.2	5456.3	5244.0	4629.7	4432.0	3608.7
22.5°	5112.6	5103.7	5110.3	5131.8	5265.4	5493.4	5683.2	5578.8	4957.6	4755.5	3855.8
25°	5831.4	5791.0	5722.5	5606.9	5573.1	5683.2	5880.8	5875.3	5303.6	5086.8	4108.5
27.5°	6655.8	6649.2	6488.6	6210.0	6052.7	6010.1	6104.4	6163.9	5646.1	5414.8	4362.4
30°	7445.5	7463.4	7246.6	6936.7	6648.0	6480.7	6395.3	6437.9	5994.3	5768.6	4624.1
32.5°	8132.9	8151.9	7916.1	7553.2	7196.1	6994.0	6814.2	6708.6	6374.0	6128.0	4911.6
35°	8713.5	8732.6	8461.9	8060.9	7680.2	7497.2	7293.8	7005.2	6755.9	6526.7	5231.7
37.5°	9232.4	9226.7	8864.0	8459.6	8085.6	7940.8	7834.1	7370.2	7149.0	6927.7	5586.7
40°	9539.1	9562.6	9252.6	8806.7	8443.9	8338.4	8331.6	7822.8	7602.7	7388.2	5975.2
42.5°	9628.8	9670.5	9445.8	9079.7	8750.5	8636.0	8812.3	8312.5	8130.6	7921.7	6414.3
45°	9467.1	9507.6	9405.4	9151.5	8959.4	8885.3	9225.6	8820.2	8694.4	8487.7	6909.7
47.5°	8995.4	9045.9	9070.6	9016.7	9014.5	9089.8	9596.4	9354.9	9363.8	9152.6	7483.6
50°	8082.3	8167.6	8394.5	8585.5	8880.8	9251.4	9956.8	9934.4	10118.6	9936.7	8231.7
52.5°	6422.2	6543.6	7325.3	7847.5	8511.3	9221.2	10353.3	10864.4	11442.8	11176.6	9286.3
55°	5161.0	5161.0	5796.7	6773.8	7790.3	9021.2	10526.2	11468.6	12344.7	12281.8	10028.7
57.5°	4207.4	4258.0	4663.3	5527.1	6746.9	8545.0	10632.9	11848.3	13071.4	13025.3	10754.3
60°	2596.7	2705.7	3471.7	4324.2	5559.7	7697.0	10565.6	12232.3	13953.0	13990.1	11628.1
62.5°	1462.4	1502.8	1844.3	3111.2	4323.0	6557.0	10050.0	12446.9	15080.7	15238.0	12528.9
65°	1009.7	1029.9	1161.3	1936.3	2996.6	5220.4	9042.6	12313.2	16210.6	16528.4	13292.6
67.5°	733.4	743.5	825.5	1182.6	1778.0	3785.0	7463.4	11639.4	16809.3	17340.5	13438.7
70°	563.9	570.6	630.1	777.3	1050.1	2336.2	5420.4	10299.4	16375.7	17010.3	12690.6
72.5°	458.3	464.9	511.1	575.0	696.4	1381.5	3285.2	8364.2	14461.8	15146.9	10803.7
75°	386.3	395.3	437.0	478.5	545.8	887.3	1541.0	5824.8	10875.6	11324.8	7512.8
77.5°	214.5	197.7	355.0	396.5	460.5	561.6	721.1	3427.9	6091.0	6215.6	3333.5
80°	133.7	138.2	281.9	319.0	353.8	283.0	330.3	1319.7	2111.5	2005.9	645.9
82.5°	7.9	17.9	216.8	230.2	242.6	121.3	124.6	448.1	508.8	467.2	114.6
85°	0.0	0.0	98.8	79.7	84.3	34.8	36.0	104.4	68.5	74.1	22.4
87.5°	0.0	0.0	0.0	2.3	0.0	3.4	6.8	9.0	3.4	4.5	7.9
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: P964754

CATALOG NUMBER: NAV-SB3C-835-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2085.7	2085.7	2085.7	2085.7	2085.7	2085.7	2085.7	2085.7	2085.7	2085.7	2085.7
2.5°	2113.8	2035.1	1875.6	1719.5	1592.6	1474.7	1390.5	1310.8	1270.3	1268.0	1265.8
5°	2177.8	2012.7	1693.7	1411.8	1184.9	1003.0	885.1	800.8	758.1	743.5	741.3
7.5°	2267.7	2019.5	1534.2	1142.3	874.9	718.8	651.4	624.4	615.5	605.4	603.1
10°	2381.1	2035.1	1391.6	919.8	689.6	611.0	584.0	572.8	566.1	559.3	557.1
12.5°	2508.1	2049.8	1250.1	763.7	606.5	566.1	546.9	533.5	524.5	516.7	514.4
15°	2631.6	2058.7	1102.9	654.8	563.9	531.3	511.1	496.4	484.1	475.1	474.0
17.5°	2754.0	2071.1	964.8	589.7	529.0	496.4	476.2	458.3	448.1	438.0	437.0
20°	2889.9	2068.9	834.6	543.7	494.2	461.7	440.2	423.4	413.3	402.1	401.0
22.5°	3015.7	2057.6	720.0	504.3	458.3	426.8	403.2	386.3	376.3	367.3	366.1
25°	3160.6	2048.7	624.4	468.3	424.6	393.1	367.3	351.6	340.3	332.4	331.4
27.5°	3299.9	2035.1	554.8	435.8	392.0	361.6	336.9	319.0	308.8	303.3	303.3
30°	3436.9	2031.8	529.0	404.4	362.7	332.4	307.7	290.9	283.0	280.7	279.6
32.5°	3602.0	2040.8	540.3	393.1	335.8	305.4	281.9	269.6	261.7	261.7	261.7
35°	3778.4	2038.5	557.1	403.2	317.9	278.6	260.6	252.7	244.9	244.9	244.9
37.5°	3999.6	2041.9	570.6	420.0	311.1	256.0	246.0	235.9	231.3	231.3	231.3
40°	4329.8	2153.1	563.9	434.7	308.8	240.4	220.2	216.8	213.4	213.4	213.4
42.5°	4734.2	2394.6	572.8	435.8	307.7	229.1	202.1	208.9	201.0	199.9	198.8
45°	5176.7	2658.5	630.1	412.2	306.6	223.6	193.2	201.0	188.7	188.7	188.7
47.5°	5615.8	2920.2	688.5	378.5	303.3	222.4	185.3	180.8	177.4	178.6	178.6
50°	6221.2	3133.6	710.9	332.4	295.4	220.2	170.8	171.9	169.6	171.9	171.9
52.5°	6880.5	3178.5	684.0	280.7	273.0	213.4	160.6	165.1	164.0	166.3	166.3
55°	7291.5	3130.2	565.0	233.6	238.1	186.4	150.5	159.5	159.5	159.5	159.5
57.5°	7716.1	2924.7	401.0	189.8	197.7	152.7	141.6	153.9	152.7	151.6	151.6
60°	8021.6	2592.2	263.9	156.1	157.2	125.8	131.4	144.9	143.8	138.2	138.2
62.5°	8249.6	2225.0	169.6	132.5	120.1	113.5	120.1	131.4	126.9	114.6	112.3
65°	8223.8	1716.2	130.3	113.5	98.8	98.8	104.4	114.6	101.1	80.9	78.6
67.5°	7744.2	1161.3	107.8	95.4	83.1	82.0	86.5	95.4	86.5	68.5	66.3
70°	6887.3	759.2	86.5	74.1	66.3	60.7	69.6	82.0	73.0	55.0	52.8
72.5°	5589.9	462.8	65.2	53.9	48.3	39.4	55.0	67.3	58.4	40.4	38.2
75°	3616.6	235.9	44.9	34.8	25.8	23.6	40.4	50.5	40.4	24.7	21.3
77.5°	1383.7	98.8	24.7	15.7	13.4	11.3	22.4	30.3	16.8	5.6	4.5
80°	266.2	41.5	12.4	7.9	6.8	4.5	3.4	2.3	0.0	0.0	0.0
82.5°	46.0	13.4	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.6	0.0	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)