

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: P962491

Luminaire Tested: **NAV-SB2C-740-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962491
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-SB2C-740-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 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: 13751.4 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 100.9
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

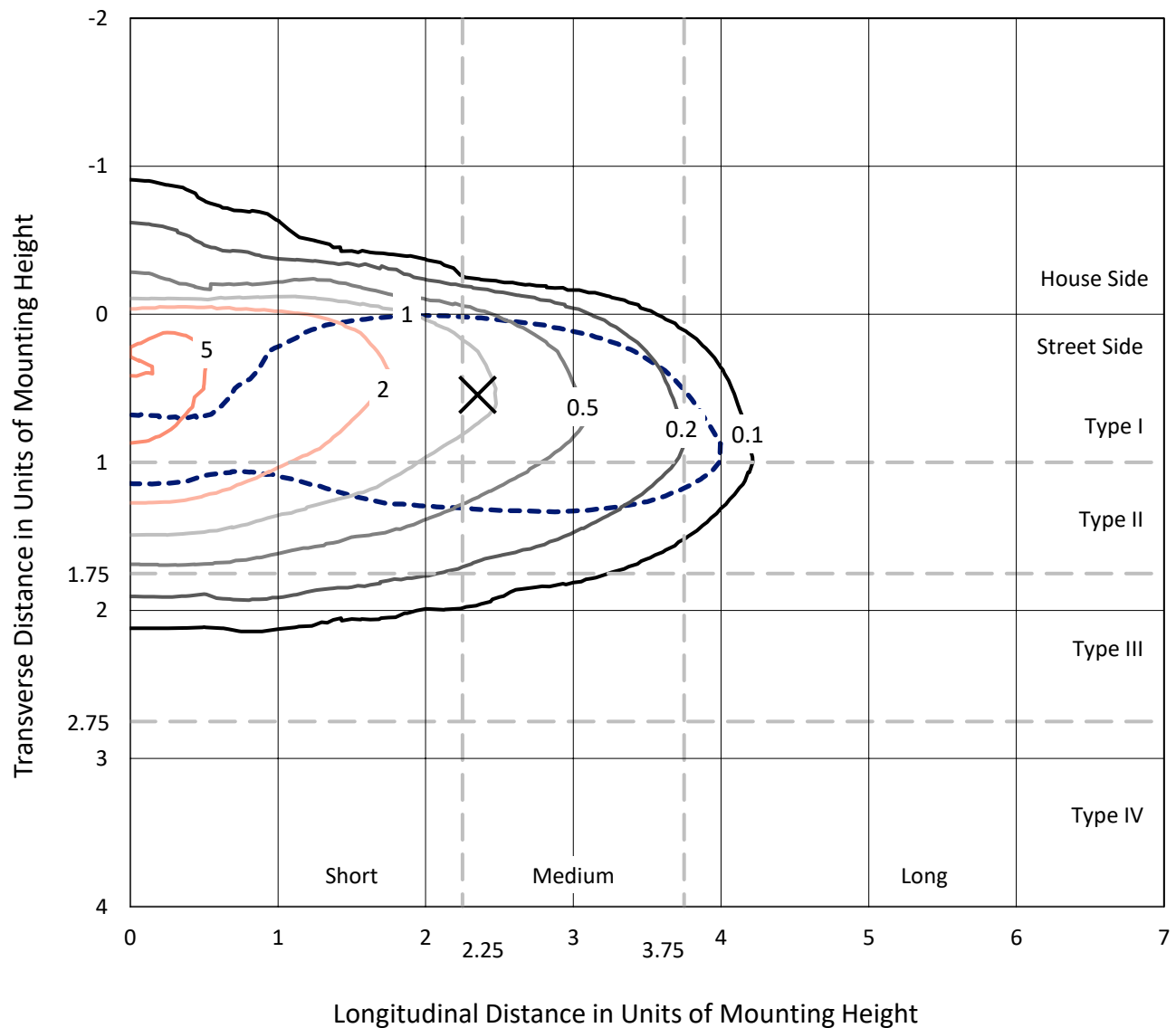


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Iso-Footcandle Lines of Horizontal Illumination

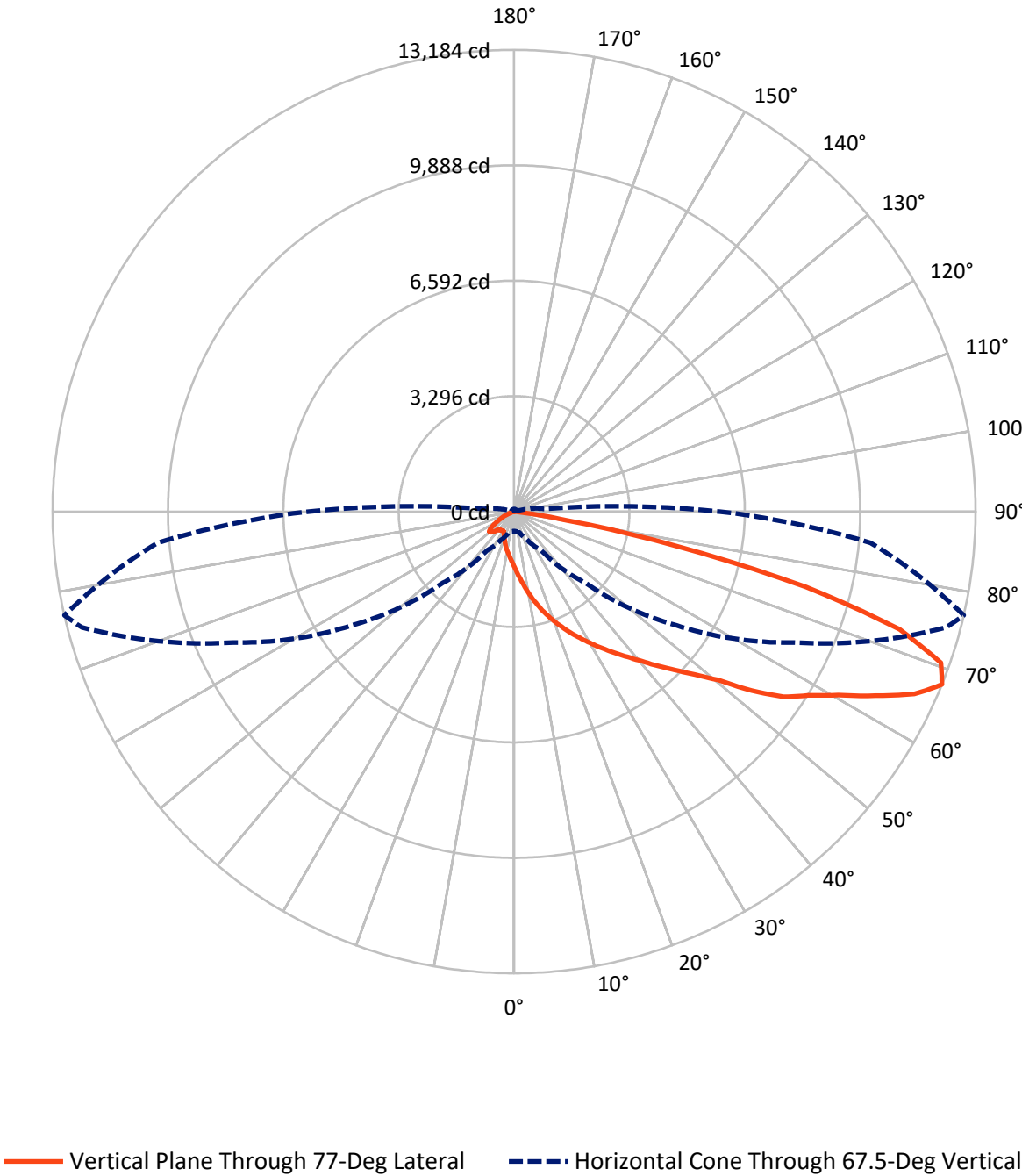
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1011.7	0.0	1011.7
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	12739.7	0.0	12739.7
	% Fixture	92.6	0.0	92.6
Total	Lumens	13751.4	0.0	13751.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.8	1.2
10°-20°	566.8	4.1
20°-30°	1093.7	8.0
30°-40°	1898.8	13.8
40°-50°	2756.9	20.0
50°-60°	3166.0	23.0
60°-70°	2748.7	20.0
70°-80°	1294.6	9.4
80°-90°	64.0	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°	13751.4	100.0
0°-180°	13751.4	100.0

Coefficient of Utilization



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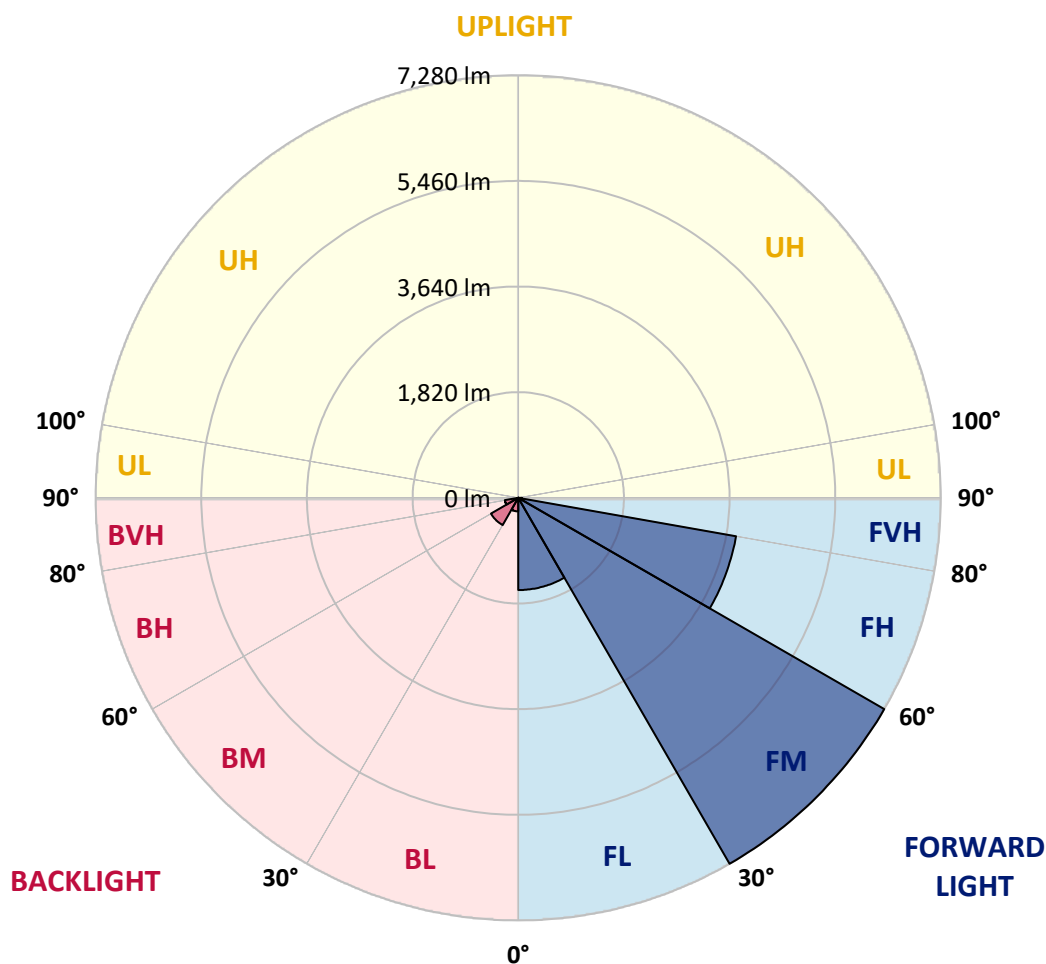
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1588.1	11.5			
FM	(30°-60°)	7279.6	52.9			
FH	(60°-80°)	3809.1	27.7			G2/5000
FVH	(80°-90°)	62.8	0.5			G1/100
BL	(0°-30°)	234.2	1.7	B1/500		
BM	(30°-60°)	542.1	3.9	B1/1000		
BH	(60°-80°)	234.2	1.7	B1/500		G1/500
BVH	(80°-90°)	1.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1585.8	1585.8	1585.8	1585.8	1585.8	1585.8	1585.8	1585.8	1585.8	1585.8	1585.8
2.5°	2195.4	2209.1	2189.5	2151.9	2095.5	2058.8	1969.1	1884.6	1790.7	1760.7	1666.9
5°	2676.2	2688.2	2665.9	2624.9	2549.8	2478.0	2360.3	2183.5	1999.9	1940.9	1774.5
7.5°	3032.3	3039.1	3030.6	2993.0	2921.2	2840.2	2708.7	2499.5	2227.0	2162.1	1906.8
10°	3288.5	3310.6	3308.1	3293.6	3245.8	3180.1	3039.9	2801.7	2481.5	2397.8	2056.3
12.5°	3458.4	3483.2	3497.7	3530.1	3527.5	3485.7	3362.7	3110.9	2735.1	2636.9	2224.5
15°	3508.0	3534.4	3589.9	3665.1	3731.6	3753.0	3666.7	3414.0	3014.3	2888.9	2397.0
17.5°	3479.8	3520.8	3587.3	3706.0	3852.1	3948.5	3939.2	3706.9	3268.0	3124.5	2566.1
20°	3542.1	3581.4	3633.4	3733.4	3903.3	4078.4	4148.4	3986.9	3519.8	3369.6	2743.6
22.5°	3887.1	3880.2	3885.4	3901.6	4003.2	4176.6	4320.9	4241.4	3769.2	3615.5	2931.5
25°	4433.5	4402.9	4350.7	4262.8	4237.1	4320.9	4471.2	4466.8	4032.2	3867.4	3123.7
27.5°	5060.3	5055.2	4933.1	4721.4	4601.8	4569.3	4641.1	4686.3	4292.7	4116.8	3316.7
30°	5660.7	5674.3	5509.5	5273.8	5054.4	4927.2	4862.3	4894.7	4557.4	4385.8	3515.6
32.5°	6183.3	6197.8	6018.5	5742.7	5471.1	5317.4	5180.8	5100.5	4846.0	4659.0	3734.2
35°	6624.8	6639.2	6433.5	6128.6	5839.1	5699.9	5545.4	5325.9	5136.4	4962.1	3977.6
37.5°	7019.3	7015.0	6739.2	6431.8	6147.4	6037.2	5956.2	5603.5	5435.3	5267.0	4247.4
40°	7252.4	7270.3	7034.7	6695.6	6419.8	6339.5	6334.4	5947.6	5780.2	5617.1	4542.9
42.5°	7320.7	7352.3	7181.5	6903.2	6653.0	6565.8	6699.9	6319.9	6181.6	6022.7	4876.7
45°	7197.8	7228.5	7150.8	6957.8	6811.7	6755.4	7014.2	6705.9	6610.2	6453.1	5253.3
47.5°	6839.1	6877.5	6896.3	6855.3	6853.6	6910.9	7296.0	7112.4	7119.1	6958.6	5689.7
50°	6144.9	6209.8	6382.3	6527.4	6752.0	7033.8	7570.0	7552.9	7693.0	7554.7	6258.4
52.5°	4882.8	4974.9	5569.3	5966.4	6471.0	7010.7	7871.5	8260.1	8699.8	8497.5	7060.2
55°	3923.8	3923.8	4407.1	5150.0	5922.9	6858.7	8003.0	8719.5	9385.5	9337.6	7624.7
57.5°	3198.8	3237.3	3545.5	4202.2	5129.5	6496.7	8084.1	9008.0	9938.0	9902.9	8176.3
60°	1974.3	2057.1	2639.5	3287.6	4226.9	5851.9	8032.8	9300.1	10608.3	10636.5	8840.7
62.5°	1111.8	1142.6	1402.1	2365.4	3286.8	4985.2	7641.0	9463.2	11465.6	11585.2	9525.5
65°	767.7	783.1	882.9	1472.2	2278.3	3969.0	6875.0	9361.5	12324.7	12566.4	10106.2
67.5°	557.6	565.3	627.6	899.2	1351.8	2877.7	5674.3	8849.2	12779.8	13183.8	10217.2
70°	428.7	433.8	479.1	590.9	798.4	1776.1	4121.0	7830.5	12450.3	12932.7	9648.5
72.5°	348.4	353.5	388.6	437.2	529.4	1050.3	2497.7	6359.2	10995.2	11516.1	8213.9
75°	293.8	300.6	332.2	363.8	415.0	674.6	1171.6	4428.4	8268.6	8610.1	5711.9
77.5°	163.1	150.3	269.9	301.5	350.1	426.9	548.2	2606.2	4630.8	4725.7	2534.4
80°	101.6	105.1	214.3	242.5	269.0	215.1	251.0	1003.4	1605.4	1525.1	491.0
82.5°	5.9	13.6	164.8	175.1	184.4	92.2	94.8	340.7	386.8	355.3	87.1
85°	0.0	0.0	75.1	60.6	64.1	26.4	27.4	79.4	52.1	56.4	17.1
87.5°	0.0	0.0	0.0	1.7	0.0	2.6	5.1	6.9	2.6	3.4	5.9
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°	1585.8	1585.8	1585.8	1585.8	1585.8	1585.8	1585.8	1585.8	1585.8	1585.8	1585.8
2.5°	1607.1	1547.3	1426.1	1307.4	1210.8	1121.2	1057.2	996.5	965.8	964.1	962.4
5°	1655.8	1530.2	1287.7	1073.4	900.9	762.6	672.9	608.8	576.4	565.3	563.5
7.5°	1724.0	1535.3	1166.4	868.5	665.2	546.5	495.3	474.8	467.9	460.2	458.6
10°	1810.4	1547.3	1058.0	699.4	524.3	464.5	444.0	435.5	430.4	425.3	423.5
12.5°	1906.8	1558.4	950.4	580.7	461.1	430.4	415.8	405.6	398.8	392.8	391.1
15°	2000.7	1565.3	838.6	497.8	428.7	404.0	388.6	377.4	368.1	361.2	360.4
17.5°	2093.9	1574.6	733.5	448.3	402.2	377.4	362.0	348.4	340.7	333.0	332.2
20°	2197.2	1573.0	634.5	413.3	375.8	351.0	334.8	322.0	314.3	305.7	304.8
22.5°	2292.8	1564.4	547.3	383.5	348.4	324.5	306.6	293.8	286.1	279.2	278.4
25°	2402.9	1557.6	474.8	356.1	322.8	298.9	279.2	267.3	258.7	252.8	251.9
27.5°	2508.8	1547.3	421.9	331.3	298.1	275.0	256.1	242.5	234.8	230.5	230.5
30°	2613.0	1544.8	402.2	307.4	275.8	252.8	234.0	221.2	215.1	213.5	212.6
32.5°	2738.5	1551.5	410.7	298.9	255.3	232.3	214.3	204.9	199.0	199.0	199.0
35°	2872.6	1549.9	423.5	306.6	241.7	211.8	198.1	192.1	186.1	186.1	186.1
37.5°	3040.9	1552.5	433.8	319.4	236.6	194.6	187.0	179.4	175.9	175.9	175.9
40°	3291.9	1636.9	428.7	330.5	234.8	182.8	167.4	164.8	162.3	162.3	162.3
42.5°	3599.3	1820.6	435.5	331.3	234.0	174.2	153.8	158.9	152.8	152.0	151.2
45°	3935.7	2021.2	479.1	313.3	233.1	169.9	146.9	152.8	143.5	143.5	143.5
47.5°	4269.6	2220.3	523.5	287.8	230.5	169.1	140.9	137.5	134.9	135.8	135.8
50°	4729.9	2382.4	540.6	252.8	224.6	167.4	129.8	130.7	128.9	130.7	130.7
52.5°	5231.2	2416.6	520.1	213.5	207.5	162.3	122.1	125.6	124.6	126.4	126.4
55°	5543.7	2379.8	429.5	177.6	181.0	141.8	114.4	121.3	121.3	121.3	121.3
57.5°	5866.5	2223.6	304.8	144.3	150.3	116.1	107.6	117.0	116.1	115.3	115.3
60°	6098.7	1970.9	200.7	118.7	119.5	95.6	99.9	110.2	109.3	105.1	105.1
62.5°	6272.1	1691.7	128.9	100.8	91.3	86.2	91.3	99.9	96.5	87.1	85.4
65°	6252.4	1304.8	99.0	86.2	75.1	75.1	79.4	87.1	76.9	61.5	59.8
67.5°	5887.8	882.9	82.0	72.6	63.1	62.3	65.7	72.6	65.7	52.1	50.4
70°	5236.3	577.3	65.7	56.4	50.4	46.1	53.0	62.3	55.6	41.8	40.2
72.5°	4250.0	351.8	49.5	41.0	36.7	29.9	41.8	51.2	44.4	30.7	29.0
75°	2749.7	179.4	34.1	26.4	19.7	17.9	30.7	38.4	30.7	18.8	16.2
77.5°	1052.1	75.1	18.8	12.0	10.2	8.5	17.1	23.1	12.8	4.3	3.4
80°	202.3	31.6	9.4	5.9	5.1	3.4	2.6	1.7	0.0	0.0	0.0
82.5°	35.1	10.2	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	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)