

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: P964725

Luminaire Tested: **NAV-SB3C-830-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-830-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15815.8 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

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



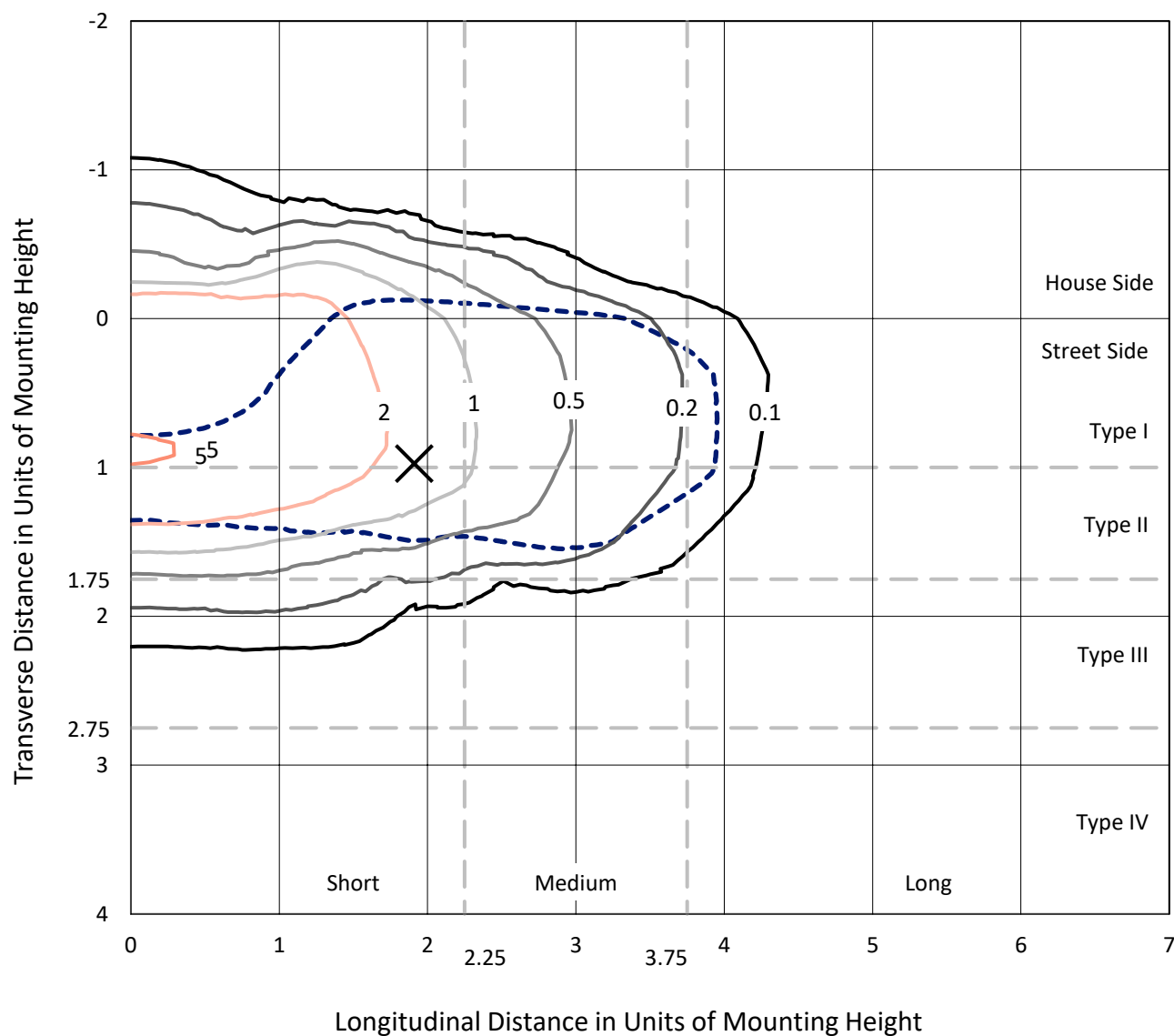
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

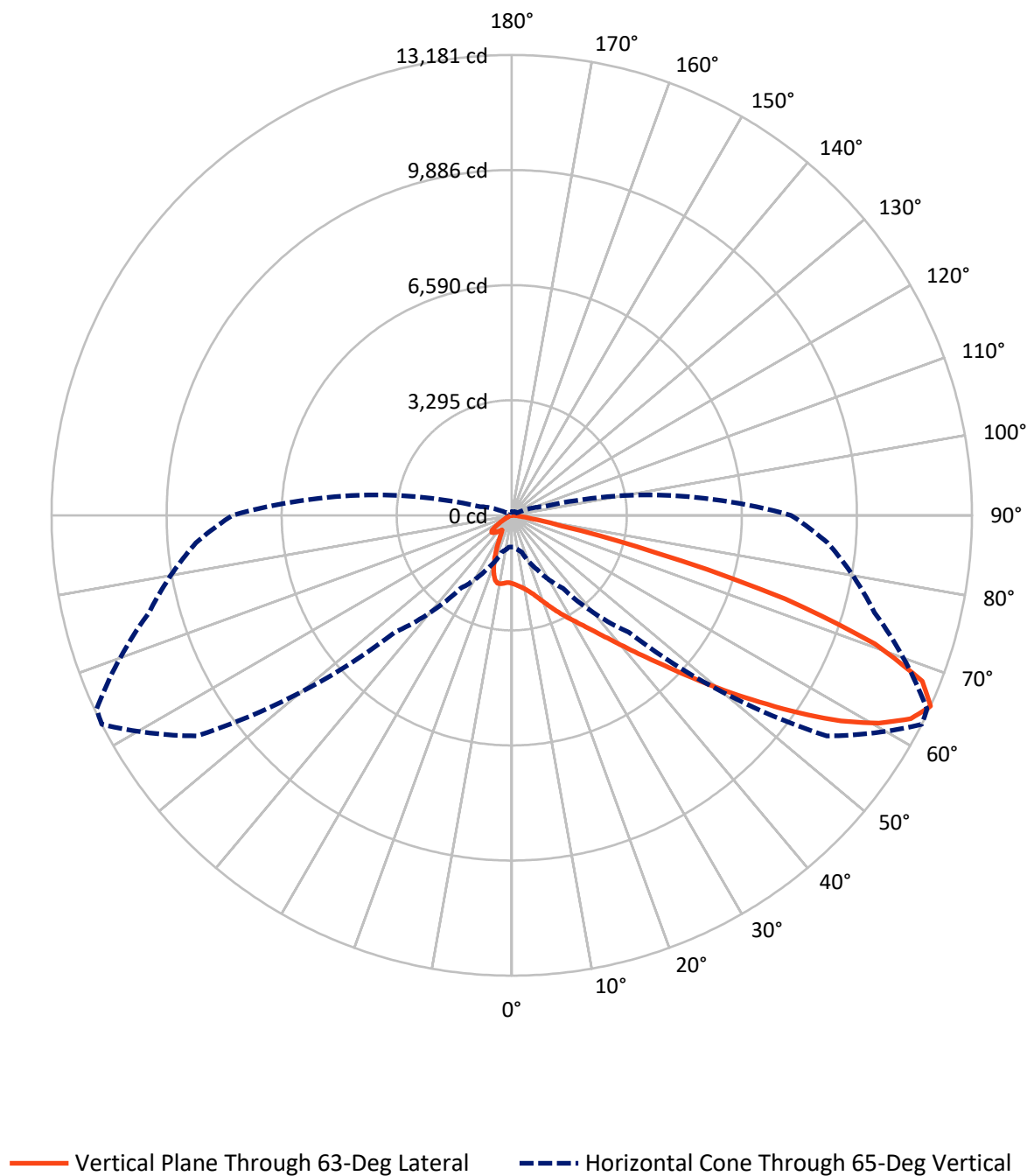


Based on 25 foot mounting height. Maximum calculated value = 5.3 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2324.8	0.0	2324.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	13491.0	0.0	13491.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	15815.8	0.0	15815.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.9	1.2
10°-20°	510.3	3.2
20°-30°	888.5	5.6
30°-40°	1601.5	10.1
40°-50°	3176.3	20.1
50°-60°	4326.6	27.4
60°-70°	3453.5	21.8
70°-80°	1562.8	9.9
80°-90°	112.3	0.7
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°	15815.8	100.0
0°-180°	15815.8	100.0

Coefficient of Utilization



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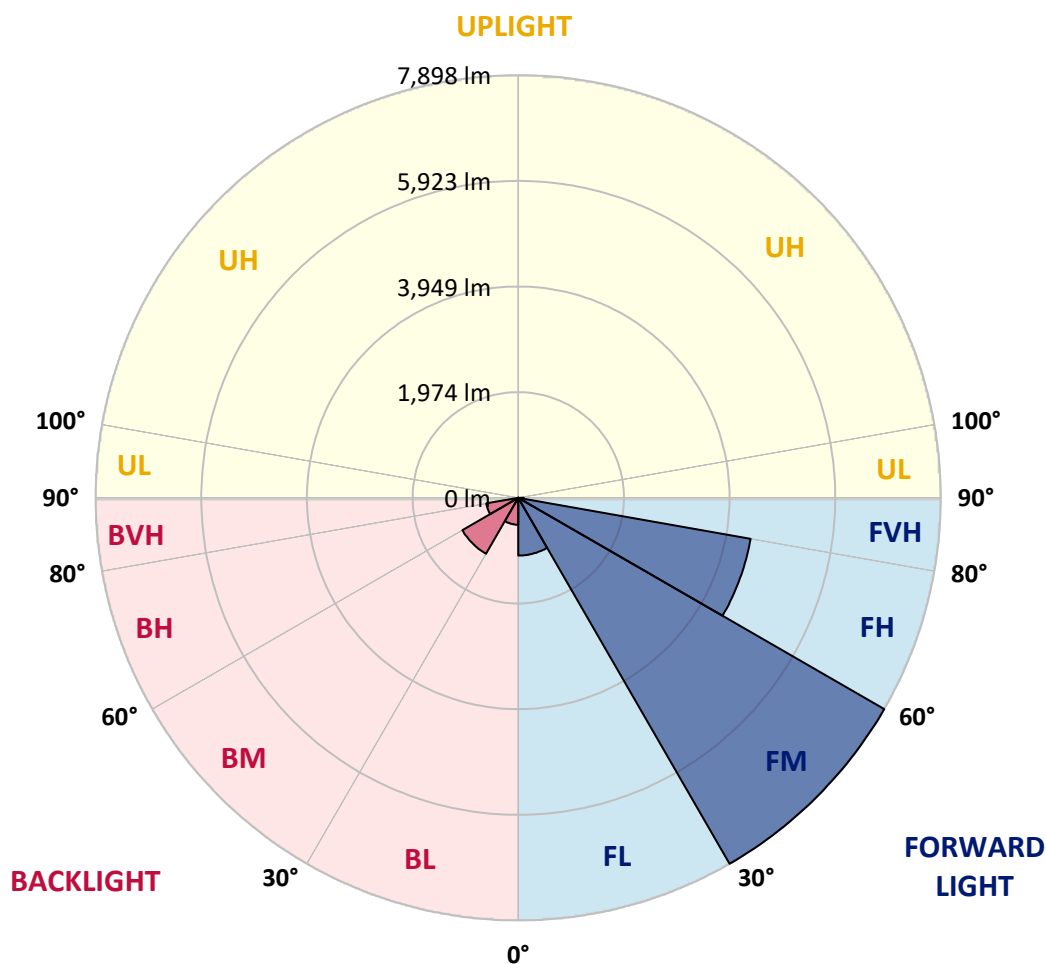
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1079.6	6.8			
FM	(30°-60°)	7898.0	49.9			
FH	(60°-80°)	4409.4	27.9			G2/5000
FVH	(80°-90°)	104.0	0.7			G2/225
BL	(0°-30°)	503.1	3.2	B2/1000		
BM	(30°-60°)	1206.4	7.6	B2/2500		
BH	(60°-80°)	606.9	3.8	B2/1000		G2/1000
BVH	(80°-90°)	8.3	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0
2.5°	1997.6	1992.2	1999.9	1996.6	1994.4	1990.0	1987.9	1985.7	1981.3	1978.0	1965.0
5°	2003.1	1999.9	2007.5	2014.0	2020.5	2027.0	2030.3	2034.6	2030.3	2021.6	2008.6
7.5°	1957.4	1955.2	1971.6	1991.2	2020.5	2045.5	2072.8	2087.9	2089.1	2085.8	2071.6
10°	1954.2	1948.7	1965.0	1988.9	2027.0	2071.6	2119.5	2152.2	2156.5	2170.6	2155.5
12.5°	2005.3	1999.9	2022.7	2048.8	2087.9	2134.8	2193.5	2239.2	2245.8	2265.4	2254.5
15°	2091.2	2083.6	2109.8	2143.5	2193.5	2246.8	2308.8	2350.2	2355.7	2379.5	2360.0
17.5°	2191.3	2183.8	2214.2	2250.1	2304.5	2377.4	2449.2	2494.8	2501.4	2516.7	2480.7
20°	2319.7	2309.9	2333.8	2366.5	2424.1	2511.2	2597.1	2662.4	2661.4	2661.4	2602.6
22.5°	2468.8	2453.5	2474.2	2500.4	2554.7	2660.3	2774.6	2851.8	2851.8	2821.3	2724.4
25°	2628.7	2613.5	2636.3	2660.3	2708.2	2827.9	2961.6	3057.5	3061.8	3009.5	2855.0
27.5°	2828.9	2809.3	2826.7	2855.0	2883.3	3005.2	3164.1	3275.1	3277.2	3196.7	2979.1
30°	3214.1	3158.6	3104.2	3073.8	3086.8	3207.5	3377.3	3500.3	3511.1	3400.1	3114.0
32.5°	3919.2	3908.3	3716.8	3466.6	3336.0	3425.1	3615.6	3763.6	3770.1	3627.6	3289.2
35°	5014.8	5001.8	4693.9	4217.3	3791.9	3716.8	3905.0	4080.2	4075.8	3914.8	3516.6
37.5°	6322.6	6310.7	5904.8	5267.3	4578.5	4157.4	4278.2	4462.1	4489.3	4278.2	3810.3
40°	7440.1	7395.5	7138.7	6523.9	5623.0	4888.6	4809.2	4931.1	4959.4	4709.1	4183.5
42.5°	8286.6	8248.5	8117.9	7733.8	6887.4	5970.1	5434.9	5481.6	5513.2	5212.8	4612.3
45°	8725.1	8716.4	8768.6	8732.7	8175.6	7297.6	6329.2	6134.4	6146.4	5771.1	5098.6
47.5°	8787.1	8782.7	9021.0	9358.4	9283.2	8794.7	7477.1	6948.3	6905.8	6401.0	5627.4
50°	8421.5	8412.8	8869.8	9502.0	10023.2	10052.5	8780.6	7865.5	7772.0	7052.7	6179.0
52.5°	7254.0	7251.9	8002.6	9054.7	10283.2	11153.6	10068.8	8873.0	8716.4	7742.5	6762.2
55°	5581.7	5621.9	6482.6	7726.2	9808.7	11683.5	11225.4	9991.6	9751.1	8436.8	7299.7
57.5°	3953.9	4012.8	4863.6	5971.2	8337.8	11370.1	12007.8	11112.2	10853.3	9128.8	7844.8
60°	2123.9	2176.1	3028.1	4350.0	6203.0	10201.5	12420.1	12085.0	11840.2	9785.9	8336.6
62.5°	1265.4	1282.8	1635.4	2808.3	4195.5	7793.7	12245.0	12825.9	12624.6	10337.5	8764.3
65°	908.6	911.7	1089.2	1714.7	2547.1	4735.2	11016.5	13180.7	13118.7	10753.2	9080.9
67.5°	764.9	762.7	836.7	1139.2	1735.4	2372.0	8443.2	12679.0	12942.4	11016.5	9260.4
70°	656.1	659.4	746.4	834.6	1304.6	1342.6	4197.7	11039.4	11600.7	11086.2	9249.5
72.5°	488.5	499.4	579.9	760.6	984.7	923.7	1449.2	8185.4	9200.6	10445.3	8769.7
75°	344.9	350.3	408.1	639.8	734.4	672.4	739.8	4231.4	5532.7	8008.0	7177.9
77.5°	265.5	275.3	309.0	447.2	723.5	472.2	452.6	1464.5	2250.1	4837.5	4921.2
80°	143.6	161.0	223.0	323.2	508.1	334.0	224.2	583.2	762.7	2262.1	1897.6
82.5°	74.0	82.7	155.6	232.9	289.5	291.6	111.0	242.6	314.5	698.5	260.0
85°	29.4	35.9	104.4	128.4	149.0	143.6	50.0	97.9	113.2	193.6	79.4
87.5°	6.6	10.9	38.1	29.4	28.3	30.4	12.0	22.9	21.7	22.9	14.1
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°	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0
2.5°	1963.9	1959.6	1947.6	1934.6	1919.3	1910.6	1905.2	1904.0	1896.5	1891.0	1896.5
5°	1996.6	1992.2	1969.3	1942.2	1912.8	1889.9	1868.2	1848.6	1820.3	1814.9	1812.7
7.5°	2061.9	2049.9	2012.9	1975.9	1920.4	1854.0	1773.6	1681.0	1598.4	1573.3	1561.4
10°	2142.4	2126.1	2079.3	2014.0	1891.0	1710.4	1515.7	1335.1	1191.5	1151.2	1135.9
12.5°	2233.8	2219.6	2157.6	2036.9	1768.1	1440.5	1142.5	918.3	779.0	744.3	734.4
15°	2342.5	2321.9	2235.9	2002.0	1548.3	1094.6	784.5	651.7	601.7	595.1	588.7
17.5°	2458.0	2424.1	2305.5	1876.9	1252.3	778.0	606.1	568.0	546.2	539.7	536.4
20°	2563.4	2520.0	2346.9	1687.6	935.7	606.1	542.9	517.9	498.4	490.7	486.4
22.5°	2669.0	2607.0	2346.9	1429.7	701.8	537.5	498.4	475.5	452.6	442.8	437.4
25°	2778.9	2696.2	2305.5	1142.5	564.7	492.9	455.9	430.9	411.3	399.3	394.9
27.5°	2885.5	2771.3	2210.9	870.4	502.7	453.8	416.8	392.8	374.3	365.6	365.6
30°	2986.7	2845.3	2078.2	660.4	462.4	415.6	380.8	360.2	341.6	332.9	334.0
32.5°	3123.8	2938.8	1936.7	541.8	427.6	379.8	348.2	328.6	312.3	305.8	305.8
35°	3314.2	3077.0	1814.9	532.1	398.2	350.3	318.8	300.3	284.0	278.5	278.5
37.5°	3584.0	3300.1	1750.7	597.4	374.3	324.2	294.9	275.3	260.0	255.7	254.6
40°	3916.9	3602.6	1785.4	662.7	357.9	301.3	273.1	253.5	240.5	235.0	233.9
42.5°	4312.0	3975.8	1978.0	712.7	347.1	281.8	252.5	230.6	221.9	219.8	219.8
45°	4765.6	4386.0	2272.9	766.0	329.6	263.3	231.8	215.5	208.9	207.8	206.7
47.5°	5281.4	4836.4	2614.6	832.4	312.3	245.9	215.5	204.6	199.2	196.9	196.9
50°	5792.8	5290.1	2966.0	869.3	298.2	229.6	202.3	193.6	189.3	188.2	188.2
52.5°	6328.1	5756.9	3250.0	834.6	286.2	216.5	191.5	185.0	180.6	179.5	179.5
55°	6838.4	6134.4	3299.0	708.3	262.2	203.5	179.5	176.3	170.9	170.9	169.7
57.5°	7278.0	6323.7	2952.9	520.1	238.3	183.9	167.6	164.3	159.9	158.9	157.7
60°	7681.7	6269.3	2279.5	350.3	212.2	164.3	152.3	150.2	145.8	140.3	139.3
62.5°	7909.0	6030.0	1559.1	228.5	186.0	143.6	134.9	133.9	124.0	113.2	111.0
65°	7995.0	5538.2	972.7	166.5	155.6	123.0	116.4	114.3	100.1	88.1	87.0
67.5°	7919.9	4728.6	490.7	131.6	123.0	102.3	95.7	95.7	86.0	75.0	74.0
70°	7619.6	3544.9	206.7	105.6	94.7	78.3	78.3	82.7	72.9	60.9	59.9
72.5°	6967.8	2385.0	109.9	80.6	70.7	55.5	64.2	67.4	57.7	45.7	45.7
75°	5539.3	1454.7	76.2	59.9	44.6	39.2	49.0	51.1	39.2	30.4	29.4
77.5°	3788.6	835.6	51.1	38.1	28.3	22.9	33.7	31.6	20.7	14.1	15.3
80°	1663.7	348.2	29.4	17.4	10.9	8.7	12.0	8.7	6.6	4.3	4.3
82.5°	194.7	81.6	10.9	6.6	4.3	2.2	1.1	0.0	0.0	0.0	0.0
85°	40.3	9.8	5.4	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.6	2.2	1.1	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)