

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: P964610

Luminaire Tested: **NAV-SB3C-740-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-740-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18769.8 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

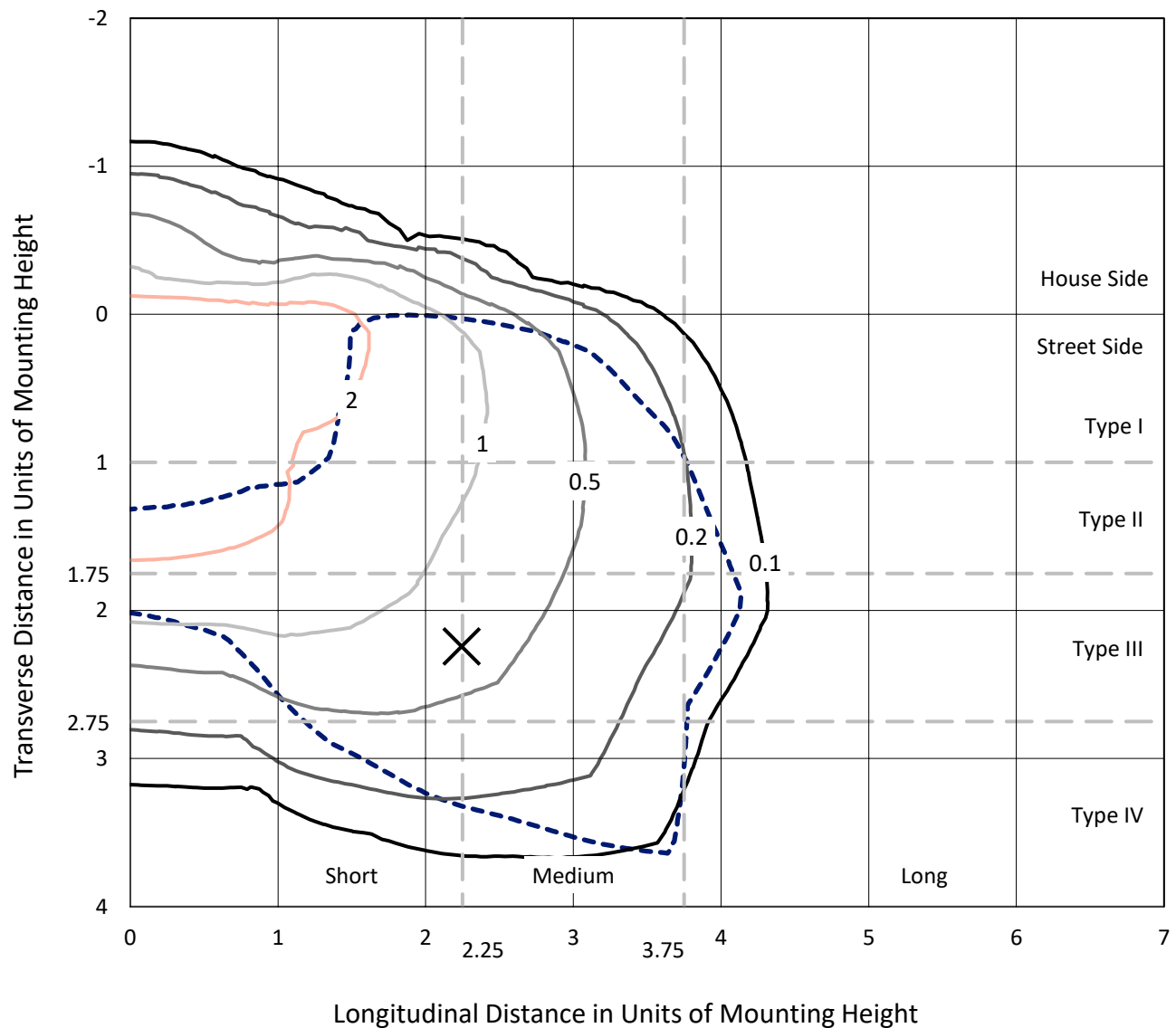
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

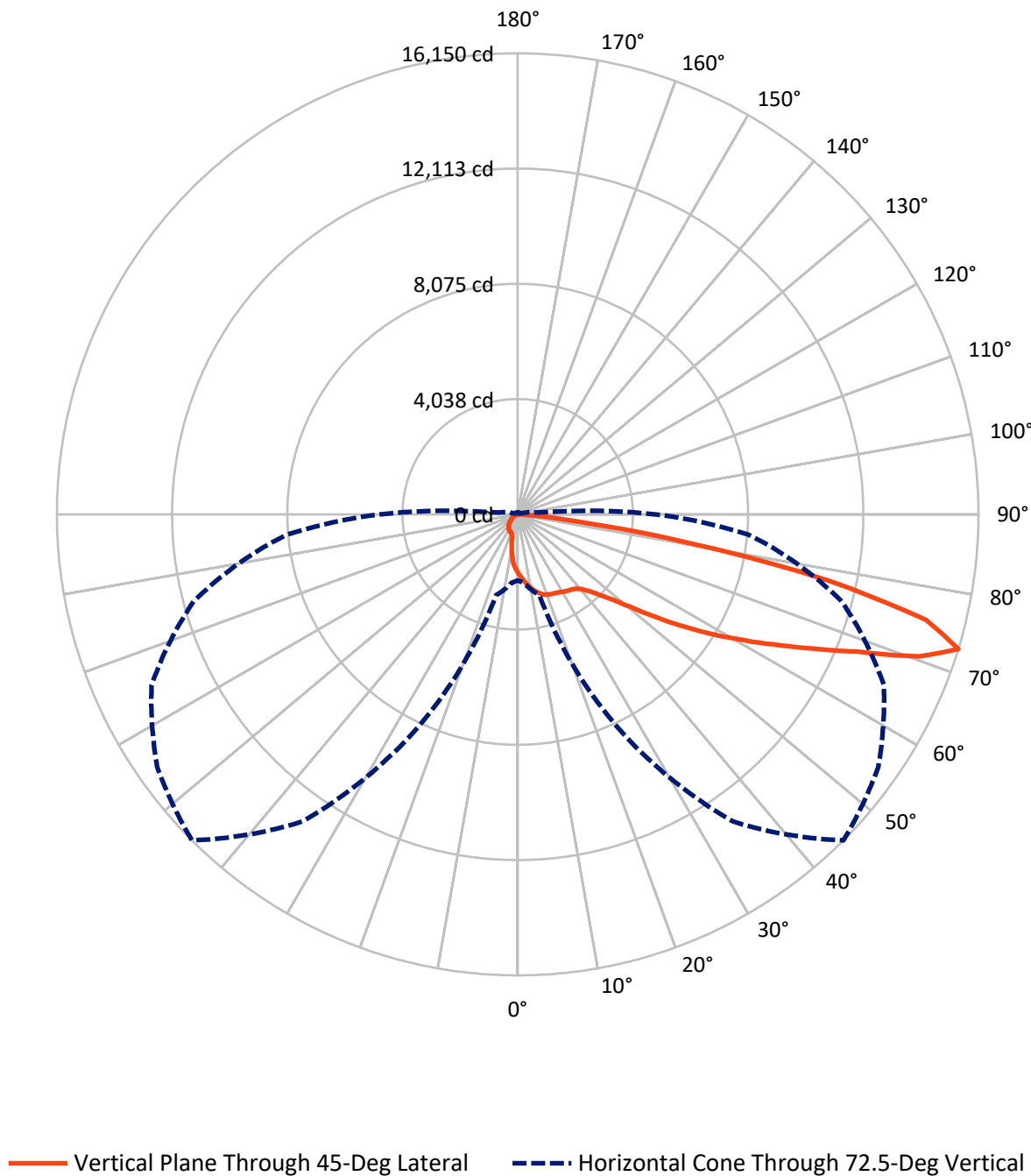
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	1972.2	0.0	1972.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	16797.6	0.0	16797.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	18769.8	0.0	18769.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.7	1.0
10°-20°	566.2	3.0
20°-30°	929.8	5.0
30°-40°	1318.7	7.0
40°-50°	2179.7	11.6
50°-60°	3915.6	20.9
60°-70°	5437.0	29.0
70°-80°	3943.8	21.0
80°-90°	285.1	1.5
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°	18769.8	100.0
0°-180°	18769.8	100.0

Coefficient of Utilization



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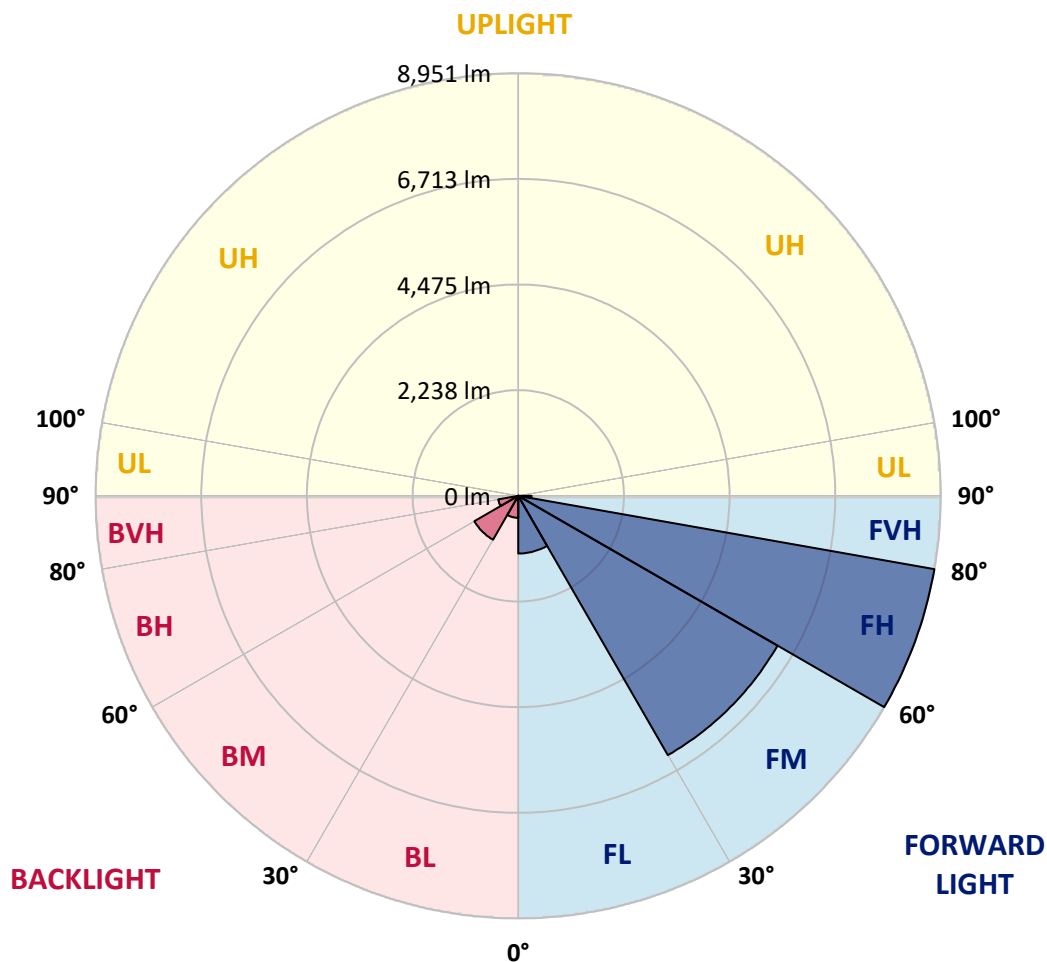
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1222.7	6.5			
FM	(30°-60°)	6341.4	33.8			
FH	(60°-80°)	8950.8	47.7			G4/12000
FVH	(80°-90°)	282.7	1.5			G3/500
BL	(0°-30°)	467.1	2.5	B1/500		
BM	(30°-60°)	1072.6	5.7	B2/2500		
BH	(60°-80°)	430.0	2.3	B1/500		G1/500
BVH	(80°-90°)	2.4	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°	35°	45°	46°	55°	65°	75°	85°
0°	2056.3	2056.3	2056.3	2056.3	2056.3	2056.3	2056.3	2056.3	2056.3	2056.3	2056.3
2.5°	2245.9	2249.8	2247.2	2231.8	2206.2	2192.1	2184.4	2158.8	2142.1	2112.6	2081.9
5°	2452.1	2467.5	2458.6	2427.8	2379.1	2344.6	2334.3	2281.8	2234.4	2179.3	2115.2
7.5°	2671.3	2678.9	2662.2	2622.6	2557.2	2498.2	2489.3	2416.2	2340.7	2256.1	2169.0
10°	2860.9	2869.8	2844.2	2786.6	2712.3	2639.2	2626.4	2545.7	2456.0	2352.2	2240.8
12.5°	3019.8	3028.7	2995.4	2926.2	2844.2	2768.6	2755.8	2671.3	2572.5	2457.2	2319.0
15°	3140.1	3156.8	3112.0	3037.7	2949.2	2873.7	2867.2	2784.0	2687.9	2559.7	2412.4
17.5°	3210.6	3227.2	3185.0	3095.3	3019.8	2955.7	2948.0	2878.8	2789.1	2666.1	2503.4
20°	3222.1	3237.5	3192.7	3114.6	3051.7	3000.5	2996.7	2946.7	2881.4	2763.5	2602.1
22.5°	3187.5	3206.7	3165.7	3103.0	3059.4	3032.6	3027.4	2999.3	2962.0	2862.1	2694.3
25°	3151.7	3167.0	3136.3	3081.3	3058.2	3055.6	3059.4	3054.3	3046.6	2962.0	2801.9
27.5°	3149.1	3165.7	3131.2	3078.7	3065.9	3092.7	3096.6	3120.9	3127.4	3053.1	2905.7
30°	3170.8	3182.4	3149.1	3094.1	3087.6	3149.1	3150.3	3193.9	3204.1	3129.8	3008.2
32.5°	3218.3	3231.1	3197.8	3117.1	3108.1	3193.9	3197.8	3255.4	3272.1	3211.8	3115.8
35°	3329.7	3345.1	3306.6	3181.1	3149.1	3236.2	3247.7	3315.7	3349.0	3299.0	3227.2
37.5°	3607.8	3562.9	3510.4	3310.5	3242.6	3302.9	3322.0	3401.5	3460.4	3402.8	3360.5
40°	4298.3	4157.4	3993.4	3530.9	3406.6	3445.0	3460.4	3539.8	3620.6	3564.2	3543.7
42.5°	5334.8	5168.3	4904.3	4038.2	3653.9	3673.1	3684.7	3753.9	3867.8	3823.0	3828.2
45°	6258.4	6198.3	5929.2	4904.3	4116.4	4021.6	4035.6	4071.5	4239.4	4222.7	4256.0
47.5°	6968.3	6933.7	6726.2	5898.5	4897.9	4448.2	4488.0	4504.6	4746.7	4805.6	4895.3
50°	7514.1	7501.3	7315.4	6782.5	5919.0	5077.2	5091.4	5055.5	5418.0	5564.1	5734.5
52.5°	8029.0	8072.6	7935.6	7603.8	7009.3	5901.0	5898.5	5729.3	6218.8	6439.2	6729.9
55°	8494.2	8509.6	8523.6	8441.6	8105.9	6838.9	6814.5	6537.8	7147.6	7375.7	7690.9
57.5°	8931.0	8937.4	9062.9	9230.8	9247.4	7845.9	7801.1	7469.2	8162.3	8325.0	8518.5
60°	9224.4	9253.9	9519.1	9985.4	10189.1	8884.9	8860.5	8522.4	9195.0	9270.5	9234.6
62.5°	8801.6	8980.9	9649.8	10574.7	11078.2	10036.7	10025.1	9707.4	10281.4	10219.9	9912.4
65°	7124.6	7428.2	8604.3	10973.1	11950.7	11323.0	11339.6	11001.3	11397.3	11197.4	10463.3
67.5°	4983.8	5304.1	6695.4	11005.2	12925.7	12833.4	12929.6	12399.1	12582.3	12133.9	10594.0
70°	3446.4	3611.6	4517.4	10315.9	13685.4	14914.1	14911.5	14115.9	13761.0	12560.6	9927.7
72.5°	2317.6	2403.4	2933.9	8184.1	13126.9	16150.4	16076.1	15427.8	14158.1	11747.0	8111.0
75°	977.5	1040.3	1358.0	4599.4	10385.1	14775.7	14574.6	13634.1	12579.7	9250.0	5060.6
77.5°	310.1	336.9	535.6	1646.3	5720.4	11106.4	10893.8	8514.7	8431.3	4640.4	1850.0
80°	147.3	171.7	301.0	661.1	2251.0	6040.7	6011.2	3862.7	3627.0	1253.0	371.6
82.5°	64.1	75.5	166.6	353.6	1007.0	2155.0	2198.5	1314.5	1087.7	475.3	114.0
85°	20.5	26.9	76.9	162.7	425.4	535.6	529.1	312.6	438.2	258.8	39.7
87.5°	0.0	0.0	25.6	37.1	43.6	30.7	34.5	26.9	121.7	71.8	14.0
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°	2056.3	2056.3	2056.3	2056.3	2056.3	2056.3	2056.3	2056.3	2056.3	2056.3	2056.3
2.5°	2066.5	2046.0	2010.1	1976.8	1947.4	1917.9	1899.9	1874.3	1871.8	1871.8	1878.2
5°	2080.6	2047.3	1983.3	1915.3	1837.2	1762.9	1688.6	1616.8	1593.8	1577.1	1584.8
7.5°	2121.6	2069.1	1967.9	1838.4	1689.8	1527.1	1413.2	1290.2	1242.7	1217.1	1221.0
10°	2180.6	2108.8	1955.1	1728.3	1487.5	1265.8	1103.1	969.9	918.6	896.8	896.8
12.5°	2245.9	2157.5	1932.0	1591.2	1265.8	1000.6	841.7	780.2	772.5	772.5	772.5
15°	2324.1	2216.5	1892.3	1429.8	1033.9	791.7	735.4	738.0	745.7	750.8	750.8
17.5°	2404.8	2279.2	1829.5	1249.2	828.9	712.4	713.6	717.5	723.9	729.0	729.0
20°	2491.9	2342.0	1746.2	1057.0	711.0	689.3	693.1	697.0	702.1	704.7	705.9
22.5°	2585.4	2400.9	1647.6	868.6	671.4	670.0	671.4	675.2	681.6	681.6	684.2
25°	2685.3	2466.3	1534.8	731.5	650.9	650.9	653.4	656.0	661.1	661.1	662.4
27.5°	2787.8	2526.4	1415.7	659.8	632.9	631.6	631.6	635.5	638.1	639.3	640.6
30°	2900.5	2596.9	1296.5	644.4	618.8	612.4	608.5	611.1	613.7	615.0	617.6
32.5°	3015.9	2664.8	1190.2	650.9	604.8	593.2	580.4	577.8	577.8	582.9	586.8
35°	3144.0	2739.1	1108.2	672.6	597.1	565.0	544.5	533.0	534.2	541.9	545.8
37.5°	3297.7	2828.8	1048.0	691.9	591.9	533.0	499.7	485.5	476.6	485.5	483.0
40°	3498.8	2960.8	1004.4	707.2	585.5	495.8	451.0	427.9	411.2	416.4	413.8
42.5°	3794.9	3168.3	987.8	708.5	571.4	452.2	401.0	370.2	345.9	347.2	342.0
45°	4209.9	3496.3	1073.6	691.9	540.7	404.9	348.5	307.5	292.1	288.2	283.1
47.5°	4778.8	3974.1	1272.2	657.2	495.8	358.7	297.2	262.6	251.1	244.7	240.9
50°	5541.0	4587.9	1492.6	618.8	451.0	315.2	254.9	233.2	225.5	219.0	217.8
52.5°	6425.0	5210.5	1673.2	580.4	406.1	276.8	228.1	215.2	208.8	203.7	202.4
55°	7236.0	5639.7	1663.0	539.4	362.5	246.0	208.8	201.1	193.4	188.3	185.7
57.5°	7740.8	5699.9	1370.8	494.6	312.6	221.6	190.9	185.7	176.8	170.4	169.1
60°	7972.7	5356.5	960.8	435.6	262.6	198.5	171.7	169.1	157.5	148.6	146.1
62.5°	8015.0	4718.5	640.6	362.5	219.0	176.8	152.4	148.6	133.2	117.9	110.2
65°	7843.3	3806.3	443.3	283.1	187.1	153.8	130.7	123.0	106.3	90.9	85.8
67.5°	7300.0	2672.5	308.7	203.7	158.9	121.7	103.7	101.2	88.4	75.5	71.8
70°	6304.6	1523.4	206.2	152.4	125.6	83.2	82.0	84.6	71.8	61.5	56.4
72.5°	4833.8	697.0	128.1	111.4	85.8	56.4	65.3	66.6	55.0	46.1	41.0
75°	2845.5	298.5	80.7	71.8	43.6	37.1	47.4	48.7	37.1	29.4	25.6
77.5°	968.5	112.7	51.2	42.2	21.7	20.5	30.7	30.7	20.5	11.5	8.9
80°	220.4	42.2	25.6	16.6	10.2	8.9	10.2	8.9	5.1	1.2	0.0
82.5°	62.7	16.6	10.2	6.4	3.8	3.8	1.2	0.0	0.0	0.0	0.0
85°	17.9	7.7	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.7	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)