

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: P964481

Luminaire Tested: **NAV-SB3C-722-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964481
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-722-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15840.3 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

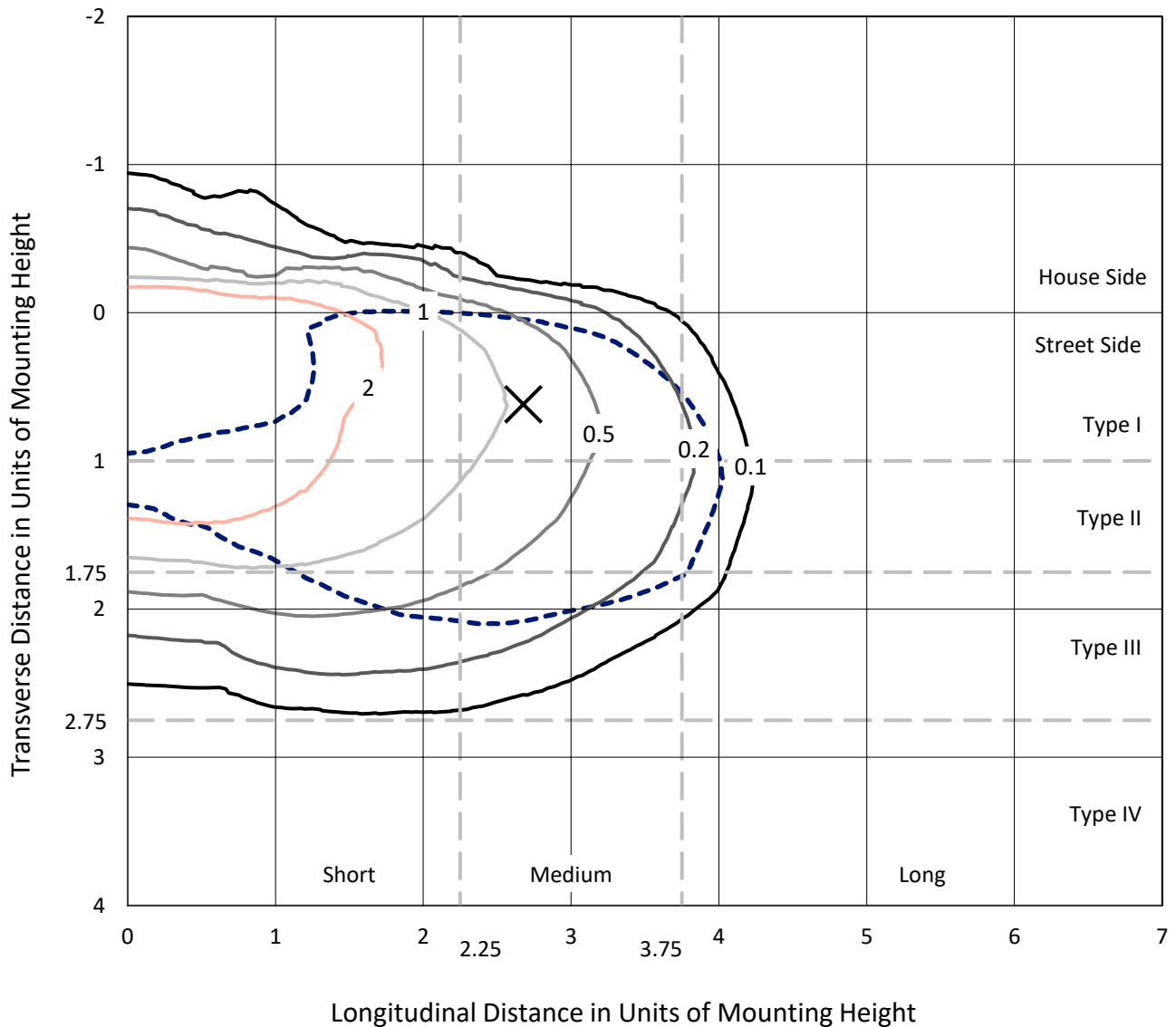
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

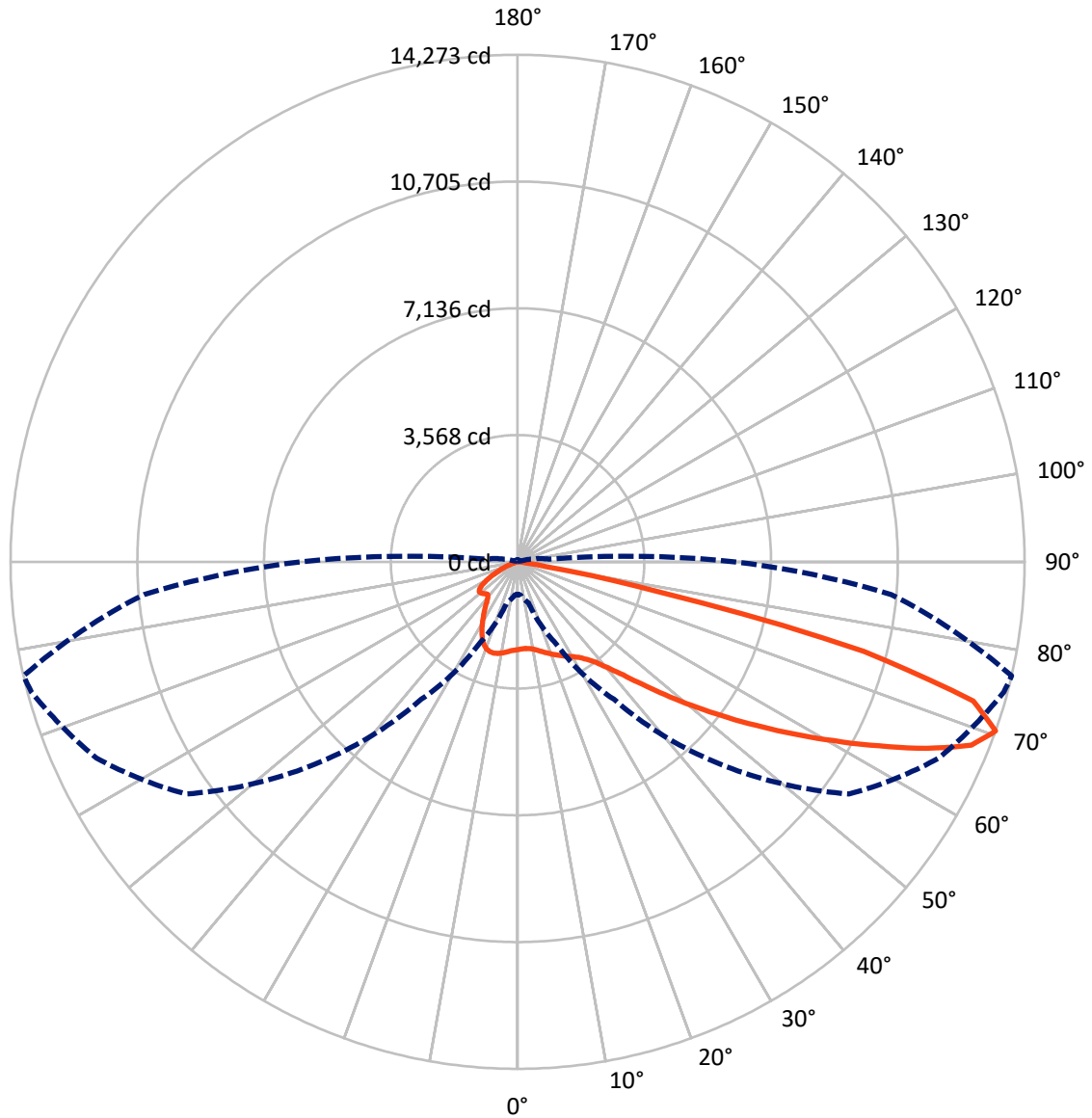
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1669.8	0.0	1669.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	14170.5	0.0	14170.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	15840.3	0.0	15840.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.9	1.3
10°-20°	505.5	3.2
20°-30°	781.9	4.9
30°-40°	1418.8	9.0
40°-50°	2678.1	16.9
50°-60°	3869.6	24.4
60°-70°	4119.1	26.0
70°-80°	2182.8	13.8
80°-90°	71.7	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°	15840.3	100.0
0°-180°	15840.3	100.0

Coefficient of Utilization

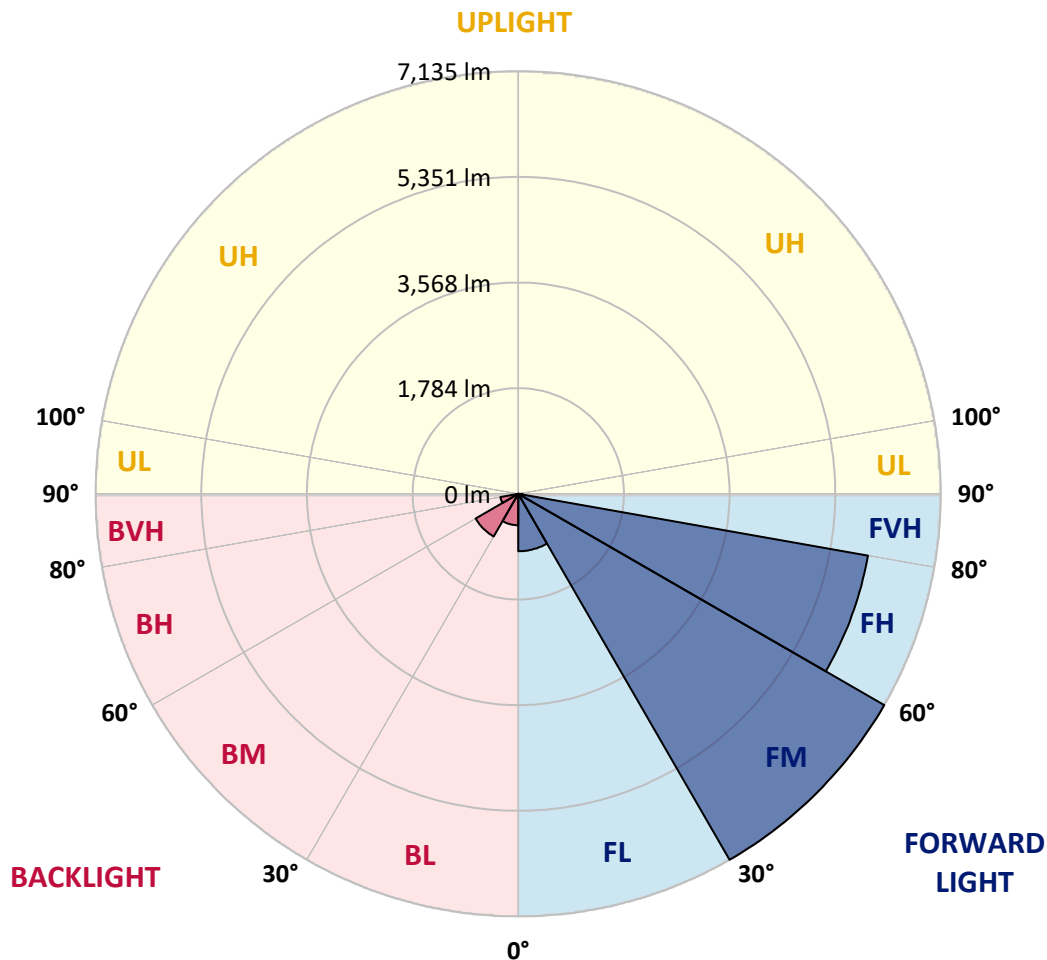


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	969.8	6.1			
FM (30°-60°)	7135.2	45.0			
FH (60°-80°)	5995.8	37.9			G3/7500
FVH (80°-90°)	69.8	0.4			G1/100
BL (0°-30°)	530.5	3.3	B2/1000		
BM (30°-60°)	831.2	5.2	B1/1000		
BH (60°-80°)	306.1	1.9	B1/500		G1/500
BVH (80°-90°)	1.9	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-G3
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2470.8	2470.8	2470.8	2470.8	2470.8	2470.8	2470.8	2470.8	2470.8	2470.8	2470.8
2.5°	2319.8	2340.8	2337.7	2351.8	2356.8	2376.8	2396.8	2423.8	2453.8	2452.8	2472.8
5°	2188.7	2209.7	2214.7	2233.7	2257.8	2288.7	2329.7	2383.7	2439.8	2448.8	2488.8
7.5°	2033.7	2055.6	2068.7	2106.7	2150.7	2214.7	2281.8	2360.8	2453.8	2466.8	2543.8
10°	1878.6	1898.6	1915.6	1969.6	2039.6	2134.7	2243.7	2357.8	2482.9	2501.8	2610.9
12.5°	1782.6	1801.5	1820.6	1867.7	1954.7	2070.7	2218.7	2371.7	2530.8	2557.9	2701.9
15°	1748.5	1765.6	1780.6	1822.6	1903.6	2035.6	2213.7	2400.8	2591.8	2627.9	2811.9
17.5°	1753.6	1762.6	1772.5	1804.6	1883.6	2019.7	2222.7	2450.8	2663.9	2695.9	2922.0
20°	1782.6	1787.6	1788.6	1810.6	1880.6	2017.6	2240.8	2498.8	2731.9	2774.9	3031.0
22.5°	1819.6	1821.6	1819.6	1834.6	1899.6	2032.7	2264.7	2556.9	2807.9	2848.0	3141.0
25°	1992.7	1954.7	1906.6	1877.6	1931.6	2061.7	2300.7	2634.9	2890.9	2930.0	3248.0
27.5°	2529.8	2420.7	2248.7	2055.6	1997.6	2103.7	2350.7	2713.9	2975.0	3010.0	3363.1
30°	3402.1	3259.1	2967.0	2531.9	2209.7	2191.8	2415.8	2792.9	3064.0	3102.1	3486.1
32.5°	4276.4	4241.3	3904.3	3302.0	2686.8	2387.7	2523.9	2899.9	3182.0	3212.0	3652.2
35°	5160.7	5089.6	4813.6	4218.4	3422.2	2786.9	2703.8	3039.9	3337.1	3371.1	3894.3
37.5°	5837.9	5794.9	5623.9	5133.7	4294.4	3403.1	3012.0	3257.0	3562.2	3600.2	4204.3
40°	6436.1	6416.1	6358.1	6035.0	5269.7	4209.4	3491.2	3593.1	3874.3	3919.3	4584.5
42.5°	6906.2	6953.3	6986.3	6896.3	6275.0	5129.7	4135.4	4065.4	4309.4	4355.4	5068.6
45°	7387.4	7403.5	7536.4	7666.5	7273.4	6092.0	4861.6	4618.5	4850.6	4907.6	5648.9
47.5°	7696.5	7760.6	7994.6	8223.7	8112.7	7046.3	5641.8	5271.7	5477.8	5584.8	6299.0
50°	7719.5	7840.5	8162.7	8561.8	8723.9	7954.6	6490.1	6015.9	6235.1	6353.1	6993.3
52.5°	7336.4	7524.4	8023.6	8607.8	9053.9	8723.9	7367.4	6760.2	7041.3	7195.4	7713.5
55°	5624.8	5870.9	7500.4	8357.7	9066.9	9307.0	8221.7	7535.5	7939.5	8113.7	8491.8
57.5°	4900.6	5024.7	5896.9	7923.6	8825.9	9542.1	8994.0	8273.7	8916.9	9133.0	9227.0
60°	4077.3	4240.4	4945.6	7213.3	8498.8	9565.1	9676.2	9226.0	9976.2	10219.4	9901.2
62.5°	2770.9	2948.0	3649.2	5993.0	8051.7	9554.1	10235.3	10206.3	11153.6	11414.7	10472.4
65°	1716.6	1827.6	2289.7	4893.6	7426.4	9566.1	10820.5	11396.8	12396.0	12661.1	10914.6
67.5°	1356.5	1407.4	1648.5	3757.2	6349.1	9296.0	11404.8	12516.1	13565.5	13775.5	11049.6
70°	911.3	942.3	1199.4	2518.8	4723.5	8049.6	11393.7	13078.3	14167.7	14272.7	10557.5
72.5°	480.1	504.2	701.2	1166.3	2852.9	5721.9	9604.1	12406.1	13568.4	13410.4	9024.0
75°	240.1	280.1	472.1	592.2	1218.4	3191.0	5964.0	9781.2	10679.5	10067.3	5789.9
77.5°	182.0	220.1	390.1	390.1	424.1	1074.3	2525.8	5334.7	4920.6	4097.3	1699.6
80°	116.0	150.1	341.1	295.1	177.0	273.1	658.3	1494.4	1045.3	795.3	309.1
82.5°	68.1	98.0	284.1	195.1	99.0	101.1	186.0	318.1	271.1	211.0	95.0
85°	27.1	64.1	195.1	77.0	39.1	25.0	56.1	68.1	56.1	42.0	24.0
87.5°	0.0	15.0	34.0	0.0	3.0	2.0	4.0	5.0	5.0	4.0	8.0
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°	2470.8	2470.8	2470.8	2470.8	2470.8	2470.8	2470.8	2470.8	2470.8	2470.8	2470.8
2.5°	2481.8	2483.8	2489.8	2490.9	2476.8	2458.8	2451.8	2448.8	2436.8	2435.8	2437.8
5°	2511.9	2520.8	2511.9	2485.8	2423.8	2336.8	2270.8	2216.8	2167.7	2152.7	2143.7
7.5°	2571.8	2580.8	2553.8	2451.8	2295.8	2122.7	1966.7	1856.6	1757.6	1720.6	1705.6
10°	2657.8	2669.9	2584.8	2378.8	2102.7	1824.6	1560.5	1374.4	1229.4	1170.3	1145.3
12.5°	2765.9	2770.9	2601.9	2267.7	1851.6	1454.5	1080.4	881.3	752.2	704.3	689.2
15°	2885.0	2877.9	2603.8	2116.7	1509.5	1028.4	705.2	579.2	527.2	511.2	511.2
17.5°	3010.0	2981.0	2563.8	1898.6	1134.4	703.3	523.2	493.1	484.1	480.1	479.2
20°	3133.0	3068.0	2490.9	1613.6	814.3	525.2	475.2	466.2	461.1	459.2	457.2
22.5°	3245.0	3134.0	2365.8	1282.4	591.2	464.1	449.2	441.2	432.1	428.1	427.1
25°	3354.1	3172.1	2189.7	973.3	473.1	434.2	422.1	407.1	395.1	390.1	388.2
27.5°	3460.1	3196.1	1969.6	720.3	422.1	406.1	384.2	363.2	354.1	352.1	350.1
30°	3573.2	3204.0	1719.5	537.2	391.1	371.2	339.1	315.1	310.1	311.1	311.1
32.5°	3711.2	3216.0	1467.5	440.1	365.1	329.1	291.1	266.1	262.1	266.1	265.1
35°	3876.2	3240.0	1224.4	405.2	342.1	286.1	245.1	224.1	220.1	223.0	222.1
37.5°	4100.3	3279.1	997.3	398.1	323.1	250.1	206.0	189.1	189.1	190.0	189.1
40°	4398.5	3383.1	794.3	393.1	313.1	223.0	174.0	167.1	170.0	172.1	172.1
42.5°	4761.5	3604.2	657.2	387.1	302.1	211.0	158.1	155.1	160.0	162.1	162.1
45°	5168.7	3884.2	609.2	377.1	292.1	219.0	151.1	147.1	153.0	154.1	155.1
47.5°	5589.8	4158.3	603.2	366.1	282.1	231.0	149.0	140.0	147.1	148.0	149.0
50°	6015.9	4337.4	609.2	349.1	266.1	231.0	150.1	133.0	139.1	142.1	143.1
52.5°	6445.1	4419.5	605.2	312.1	238.1	217.1	150.1	127.0	133.0	135.1	135.1
55°	6861.2	4403.4	544.2	257.1	202.0	192.1	146.1	122.1	126.1	127.0	127.0
57.5°	7190.4	4180.4	431.1	200.1	164.1	160.0	133.0	116.0	119.0	118.1	118.1
60°	7362.4	3690.2	308.1	154.1	129.0	126.1	117.1	108.0	110.1	105.1	104.0
62.5°	7364.4	3042.0	206.0	122.1	103.0	100.0	100.0	97.1	95.0	85.1	82.0
65°	7207.4	2322.8	137.0	97.1	83.0	78.0	84.0	83.0	76.1	62.0	60.1
67.5°	6851.2	1522.5	104.0	76.1	64.1	61.0	67.0	70.0	65.0	52.0	51.0
70°	6119.0	886.3	86.0	59.0	48.0	45.0	54.0	60.1	54.0	42.0	40.0
72.5°	5082.7	478.2	70.0	44.0	33.0	30.0	43.0	49.0	43.0	31.1	30.0
75°	3298.0	256.0	54.0	29.0	17.0	19.0	32.0	36.0	30.0	20.0	18.0
77.5°	1107.4	113.1	34.0	14.0	8.0	8.0	19.0	22.0	14.0	7.0	6.0
80°	247.1	47.0	14.0	6.0	3.0	3.0	4.0	4.0	2.0	0.0	0.0
82.5°	81.1	19.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.1	7.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.0	1.0	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)