

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: P882736

Luminaire Tested: **NAV-SB2D-730-U-T2-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882736  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2D-730-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

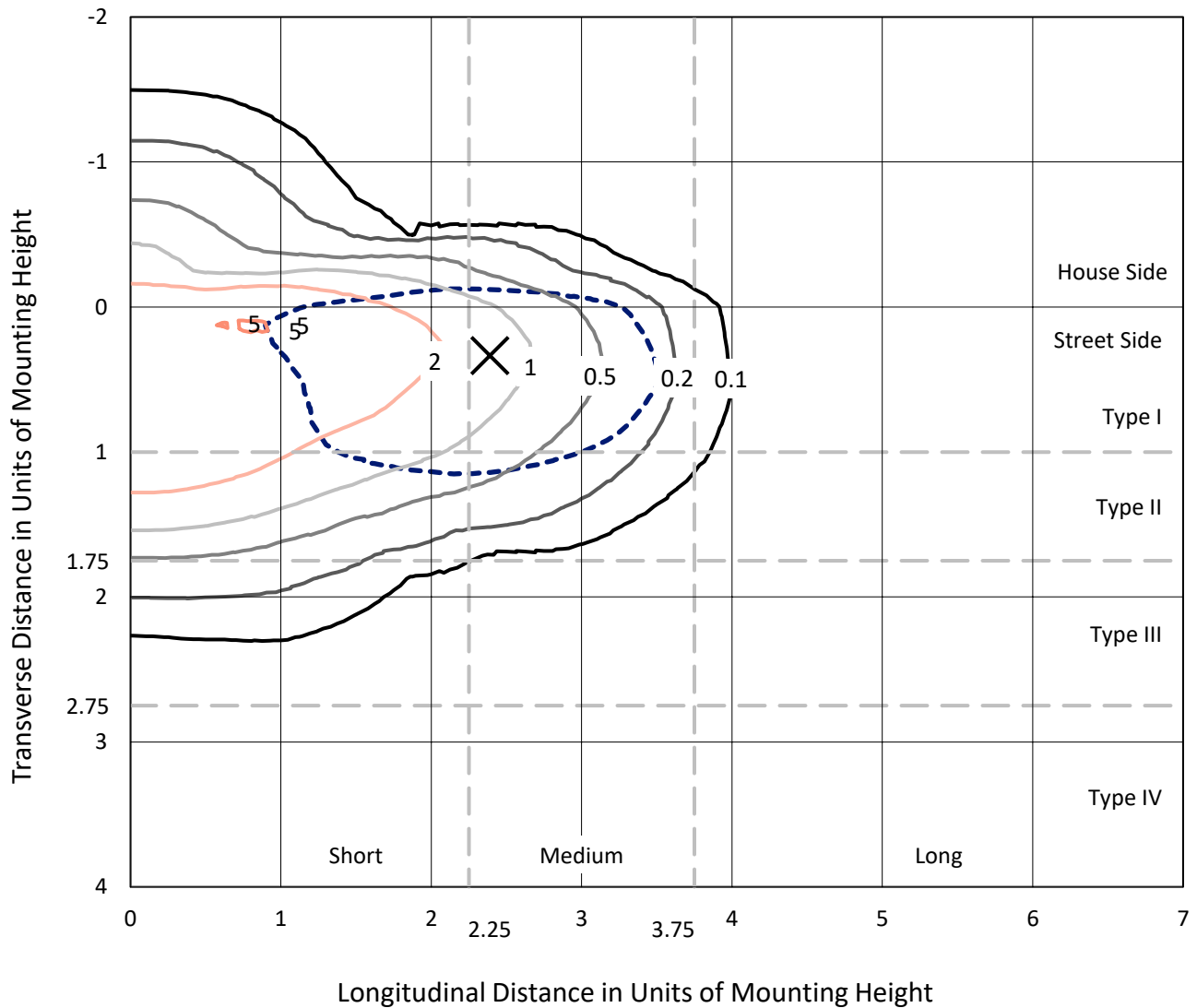
Lumens per Lamp: N/A  
Luminaire Lumens: 14908 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 147.6  
Input Voltage (V): 120.0  
Input Current (Ain): 1.234  
Voltage Rise (V): NR  
Power Factor: 0.999  
Total Harmonic Distortion (THDi): 3.108  
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

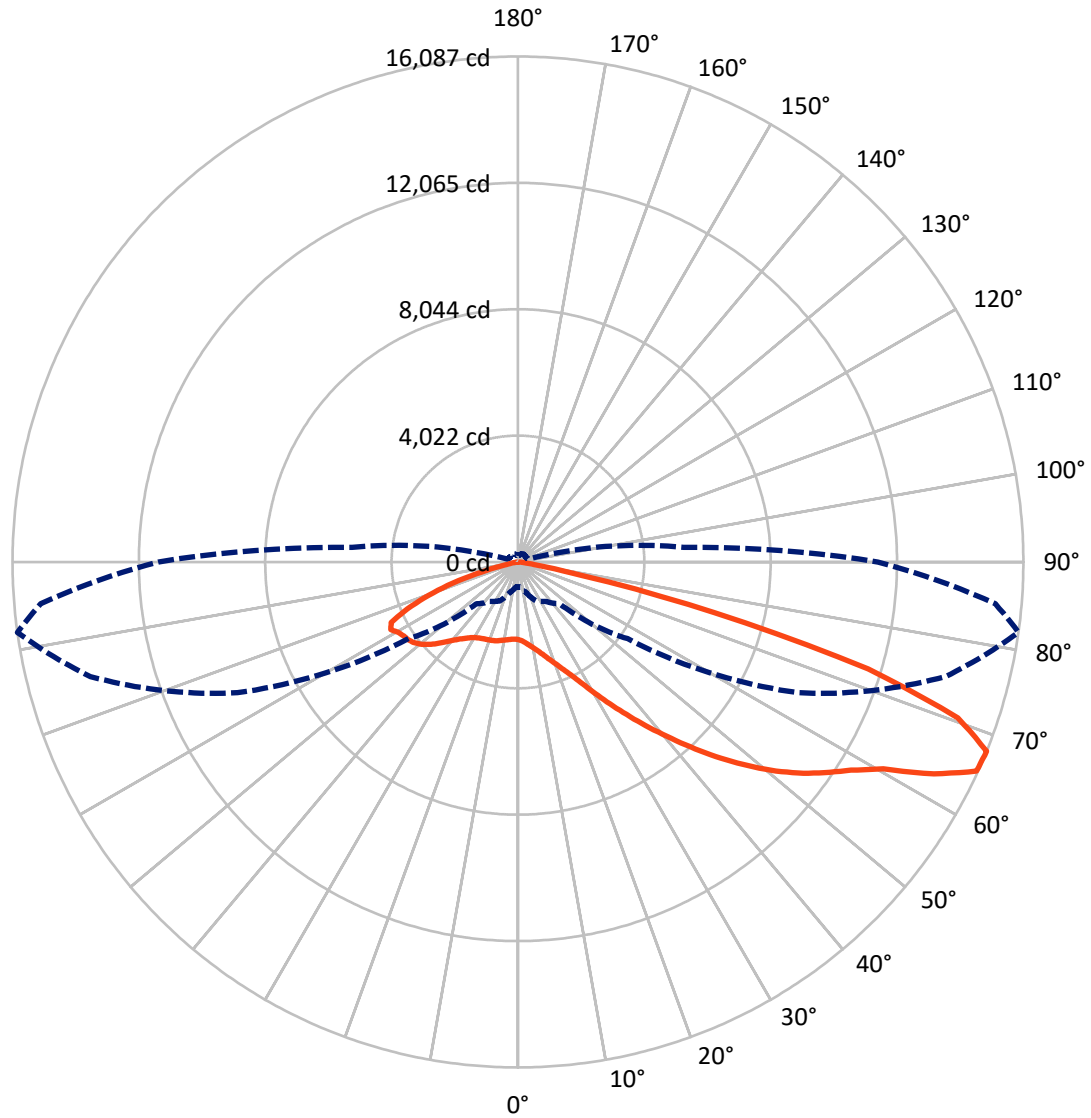
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2700.4	0.0	2700.4
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	12207.5	0.0	12207.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	14908.0	0.0	14908.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.0	1.5
10°-20°	571.8	3.8
20°-30°	915.8	6.1
30°-40°	1619.4	10.9
40°-50°	2837.4	19.0
50°-60°	3784.3	25.4
60°-70°	3523.0	23.6
70°-80°	1352.1	9.1
80°-90°	84.0	0.6
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°	14908.0	100.0
0°-180°	14908.0	100.0

**Coefficient of Utilization**



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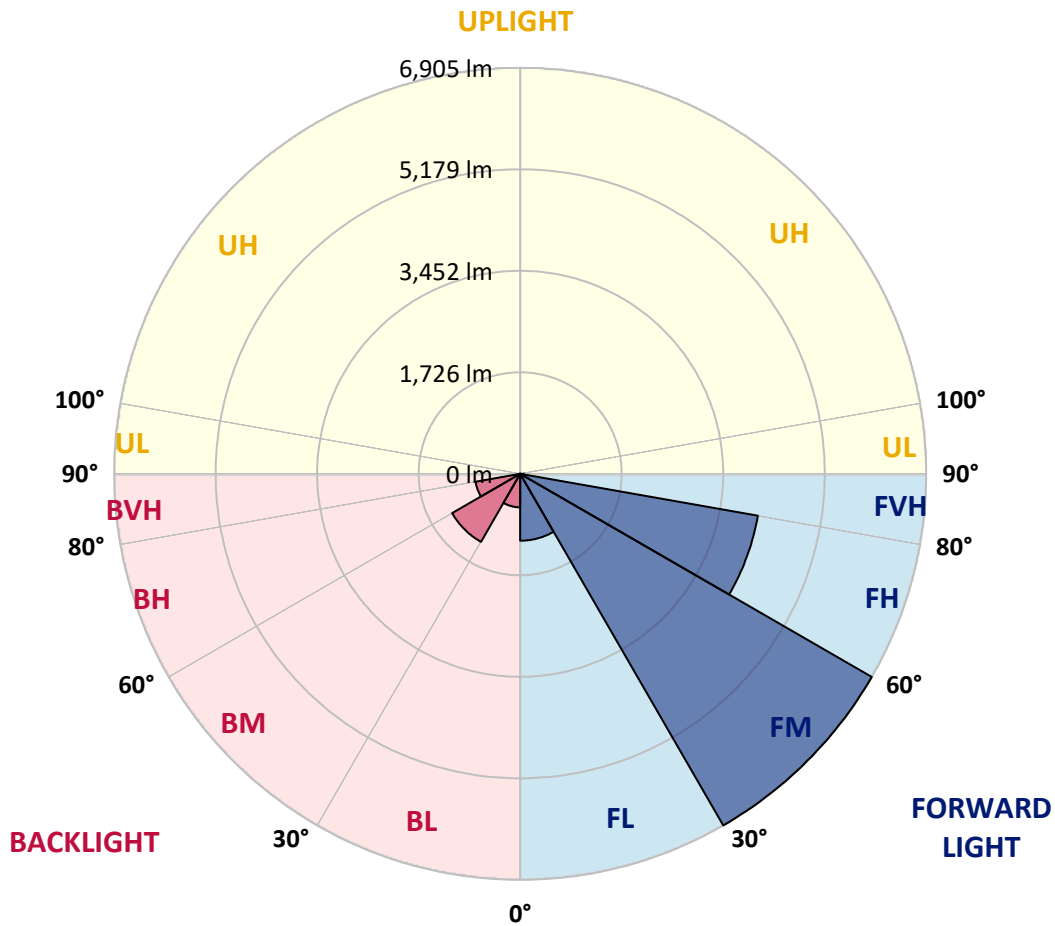
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1137.3	7.6			
FM (30°-60°)	6904.8	46.3			
FH (60°-80°)	4104.4	27.5			G2/5000
FVH (80°-90°)	61.1	0.4			G1/100
BL (0°-30°)	570.3	3.8	B2/1000		
BM (30°-60°)	1336.4	9.0	B2/2500		
BH (60°-80°)	770.8	5.2	B2/1000		G2/1000
BVH (80°-90°)	22.9	0.2			G1/100
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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2469.8	2469.8	2469.8	2469.8	2469.8	2469.8	2469.8	2469.8	2469.8	2469.8	2469.8
2.5°	2610.4	2625.4	2616.8	2612.5	2605.0	2594.3	2585.7	2558.8	2530.9	2512.7	2506.2
5°	2663.0	2678.0	2676.9	2681.2	2686.6	2689.8	2687.6	2657.6	2617.9	2586.7	2568.5
7.5°	2617.9	2635.0	2649.0	2670.5	2708.0	2747.7	2767.1	2760.6	2719.8	2676.9	2654.4
10°	2490.1	2508.4	2541.7	2592.1	2671.5	2757.4	2829.3	2862.6	2836.8	2789.6	2758.5
12.5°	2256.2	2274.4	2339.9	2449.4	2582.5	2731.6	2869.0	2958.1	2964.6	2917.3	2880.8
15°	1993.2	2011.4	2081.2	2218.6	2421.5	2660.8	2890.5	3059.0	3115.9	3075.1	3031.1
17.5°	1830.0	1846.1	1898.7	2009.3	2220.7	2519.1	2883.0	3166.3	3296.2	3264.0	3211.4
20°	1780.7	1794.6	1819.3	1896.6	2072.6	2372.1	2833.6	3267.2	3490.5	3472.2	3413.2
22.5°	1833.3	1846.1	1853.7	1888.0	1998.6	2275.5	2771.4	3370.3	3715.9	3718.0	3646.1
25°	1954.5	1967.4	1958.8	1980.3	2028.6	2245.4	2747.7	3491.6	3999.3	4022.9	3941.3
27.5°	2154.2	2155.3	2134.9	2133.8	2141.3	2290.5	2772.4	3621.4	4356.7	4400.7	4299.8
30°	2554.5	2538.4	2460.1	2375.3	2336.7	2425.7	2841.1	3774.9	4778.5	4856.9	4730.2
32.5°	3171.7	3148.1	3004.3	2801.4	2597.5	2643.6	2964.6	3949.9	5237.9	5379.6	5225.0
35°	3841.5	3835.0	3684.8	3383.2	3026.8	2953.8	3165.3	4179.6	5739.1	5964.5	5781.0
37.5°	4464.0	4460.8	4374.9	4019.7	3586.0	3386.4	3487.3	4480.1	6275.8	6602.1	6385.3
40°	5032.9	5042.5	4956.7	4639.0	4202.1	3941.3	3925.2	4851.5	6872.6	7296.6	7039.0
42.5°	5524.5	5535.2	5448.3	5213.2	4810.7	4555.2	4462.9	5306.6	7455.4	8042.5	7737.7
45°	5858.3	5924.8	5911.9	5724.1	5435.4	5170.3	5109.1	5877.6	8119.8	8833.6	8476.2
47.5°	5952.7	6013.9	6110.5	6136.3	5960.2	5699.4	5772.4	6565.6	8791.7	9625.7	9218.9
50°	5719.8	5776.7	5977.4	6244.7	6367.0	6286.5	6417.5	7303.0	9479.7	10415.7	9947.7
52.5°	5260.4	5318.4	5571.7	5994.6	6493.7	6747.0	7064.7	8029.6	10146.3	11163.8	10637.9
55°	4596.0	4657.2	4982.4	5461.1	6252.2	6937.0	7604.6	8755.2	10757.0	11836.8	11260.4
57.5°	3692.3	3737.4	4075.5	4745.2	5644.7	6748.1	8002.8	9547.3	11332.3	12497.9	11877.6
60°	2406.4	2446.1	2839.0	3586.0	4637.9	6117.0	8082.2	10430.7	12096.5	13357.7	12709.4
62.5°	1600.3	1627.2	1860.1	2408.6	3266.2	4905.2	7617.5	11135.9	13217.1	14853.9	14135.9
65°	1098.0	1124.9	1357.8	1739.9	2110.2	3244.7	6281.2	11042.5	14232.5	16042.1	15193.1
67.5°	783.5	806.1	1003.6	1364.2	1527.4	1884.8	4257.9	9849.0	14086.5	16087.2	15250.0
70°	561.4	574.2	737.4	1062.6	1213.9	1132.4	2367.8	7532.7	12333.7	14855.0	14088.6
72.5°	392.8	397.1	512.0	809.3	977.8	826.5	1127.0	5022.1	9328.4	11659.7	10922.3
75°	266.2	271.6	344.5	593.6	784.6	631.1	596.8	2693.0	5476.2	6454.0	5785.3
77.5°	163.1	165.3	222.2	405.7	587.1	480.9	384.3	1141.0	2118.8	2080.1	1773.2
80°	92.3	92.3	141.7	252.2	400.4	310.2	269.4	485.1	670.8	589.3	519.5
82.5°	51.5	52.6	103.0	156.7	265.1	183.5	148.1	224.3	289.8	256.5	223.3
85°	21.5	23.6	63.3	74.1	126.7	91.2	60.1	94.5	107.3	95.5	69.8
87.5°	2.1	3.2	19.3	14.0	15.0	18.2	8.6	18.2	15.0	15.0	10.7
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°	2469.8	2469.8	2469.8	2469.8	2469.8	2469.8	2469.8	2469.8	2469.8	2469.8	2469.8
2.5°	2485.9	2469.8	2429.0	2381.7	2319.5	2289.4	2248.6	2220.7	2197.1	2199.3	2177.8
5°	2534.2	2493.4	2402.1	2288.4	2146.7	2045.8	1938.4	1864.4	1804.3	1791.4	1762.4
7.5°	2600.7	2536.3	2376.4	2171.4	1932.0	1750.6	1588.5	1484.4	1410.4	1386.8	1363.1
10°	2686.6	2593.2	2343.1	2024.3	1679.8	1449.0	1275.1	1193.6	1143.1	1125.9	1113.1
12.5°	2786.4	2658.7	2299.1	1845.1	1420.0	1197.8	1087.3	1046.5	1030.4	1025.0	1021.8
15°	2912.0	2740.2	2232.5	1632.5	1200.0	1044.4	997.1	991.8	993.9	991.8	990.7
17.5°	3061.2	2829.3	2124.1	1413.6	1051.9	966.0	948.8	953.1	958.5	957.4	955.3
20°	3224.3	2917.3	1985.7	1219.3	951.0	910.2	900.5	904.8	909.1	907.0	905.9
22.5°	3410.0	3011.8	1832.2	1068.0	883.4	858.7	847.9	849.0	849.0	844.7	842.6
25°	3632.2	3115.9	1671.2	960.6	831.8	812.5	799.6	795.3	788.9	776.0	773.9
27.5°	3897.3	3226.5	1516.6	885.5	791.1	772.8	757.8	747.0	730.9	709.5	707.3
30°	4195.7	3360.6	1385.7	838.3	758.9	740.6	723.4	707.3	683.7	656.9	654.7
32.5°	4546.7	3504.4	1290.2	807.2	729.9	710.5	690.2	670.8	645.1	618.2	619.3
35°	4965.3	3678.3	1234.3	785.7	707.3	681.6	659.0	637.6	618.2	594.6	592.5
37.5°	5419.3	3862.9	1217.2	775.0	692.3	652.6	626.8	611.8	609.7	595.7	594.6
40°	5916.2	4081.9	1230.0	768.5	676.2	624.7	596.8	593.6	598.9	574.2	575.3
42.5°	6442.2	4341.7	1251.5	761.0	653.7	596.8	569.9	569.9	565.6	531.3	531.3
45°	7011.0	4641.1	1273.0	742.8	626.8	568.9	548.5	541.0	522.7	489.4	488.4
47.5°	7584.2	4945.9	1289.1	709.5	594.6	545.3	527.0	509.8	483.0	452.9	451.9
50°	8128.4	5219.6	1271.9	660.1	558.1	522.7	503.4	479.8	450.8	430.4	427.2
52.5°	8614.6	5456.9	1198.9	602.1	519.5	499.1	481.9	457.2	433.6	412.2	410.0
55°	9037.5	5649.0	1070.1	547.4	485.1	478.7	461.5	430.4	398.2	380.0	377.8
57.5°	9443.2	5795.0	909.1	502.3	454.0	456.2	430.4	402.5	372.4	353.1	351.0
60°	9983.1	5990.3	746.0	460.5	420.7	427.2	399.3	378.9	341.3	316.6	313.4
62.5°	10846.1	6294.1	592.5	408.9	382.1	384.3	372.4	347.8	302.7	273.7	271.6
65°	11530.9	6182.4	466.9	353.1	338.1	341.3	341.3	314.5	266.2	232.9	229.7
67.5°	11453.6	5293.7	372.4	298.4	296.2	298.4	305.9	283.4	236.1	209.3	205.0
70°	10550.9	4210.7	298.4	247.9	257.6	252.2	273.7	258.7	212.5	185.7	182.5
72.5°	8609.2	3033.3	227.5	205.0	197.5	206.1	246.9	232.9	177.1	147.0	143.8
75°	5030.7	1618.6	169.6	162.1	142.8	171.7	219.0	198.6	135.2	108.4	105.2
77.5°	1637.9	564.6	124.5	119.1	106.3	138.5	186.8	167.4	110.6	85.9	82.6
80°	439.0	170.7	84.8	78.4	68.7	103.0	148.1	133.1	79.4	55.8	54.7
82.5°	176.0	71.9	49.4	44.0	37.6	70.8	117.0	107.3	59.0	35.4	35.4
85°	56.9	23.6	18.2	14.0	17.2	44.0	69.8	73.0	41.9	18.2	14.0
87.5°	7.5	3.2	3.2	4.3	3.2	7.5	21.5	20.4	11.8	2.1	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)